

Repair Manual Jetta 2011 ➤

Jetta 2011 ➤

**Body Exterior** 

Edition 05.2021





# List of Workshop Manual Repair Groups

# Repair Group

- 50 Body Front
- 55 Hood, Lids
- 57 Front Doors, Central Locking System
- 58 Rear Doors
- 60 Sunroof
- 63 Bumpers
- 64 Glass, Window Regulators
- 66 Exterior Equipment

Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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# 50 – Body Front

# 1 Lock Carrier

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- ⇒ H1.5 oses, Removing and Installing", page 11

# 1.1 Tools

Special tools and workshop equipment required

- ♦ Guide Pins -T10093-
- ◆ Torque Wrench 1331 5-50Nm -VAG1331-
- ♦ Torque Wrench 1332 40-200Nm -VAG1332-
- 1.2 Lock Carrier Attachments
- ⇒ 1.2.1 , page 1

# 1.2.1 Overview

# 1 - Lock Carrier with Attachments

- □ Removing and installing. Refer to ⇒ C1.4 arrier with Attachments, Removing and Installing", page 8.
- Service position. Refer to ⇒ P1.3 osition", page
   5

# 2 - Air Duct

#### 3 - Screw

- □ 2 Nm
- Quantity: 2

### 4 - Bolt

- □ 8 Nm
- ☐ Quantity: 3 on each side

# 5 - Retaining Bracket

☐ Left

# 6 - Air Duct

□ Left

# 7 - Bolt

- □ 8 Nm
- ☐ Quantity: 2 on each side
- ☐ For attaching the bumper carrier -9- to the lock carrier -1-

# 8 - Bolt

- □ 60 Nm
- ☐ Quantity: 4 on each side

# 9 - Bumper Carrier

# 10 - Nut

- □ 8 Nm
- Quantity: 2
- ☐ For attaching the lock carrier support -15- to the bumper carrier -9-

# 11 - Foam Piece

☐ Installed depending on the version

# 12 - Bolt

- □ 8 Nm
- Quantity: 3

# 13 - Center Guide

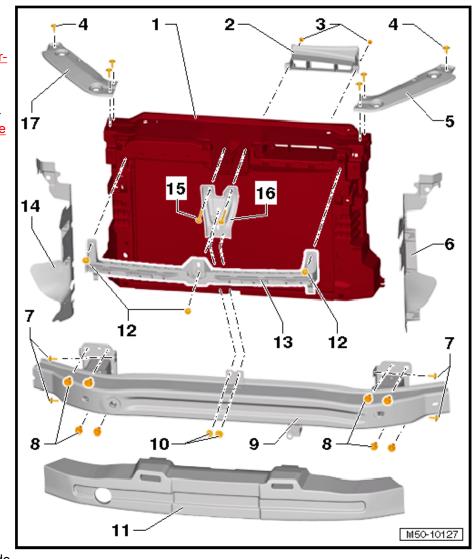
☐ Guide for the front bumper cover

# 14 - Air Duct

□ Right

# 15 - Bolt

- □ 12 Nm
- Quantity: 2



- ☐ For attaching the lock carrier support to the lock carrier and latch
- 16 Support
- 17 Retaining Bracket
  - □ Right

1.2.2 Overview - (NOT FOR NORTH AMERICAN MARKET)

# 1 - Lock Carrier with Attachments

- Removing and installing. Refer to ⇒ C1.4 arrier with Attachments,
   Removing and Installing", page 8
- Service position. Refer to ⇒ P1.3 osition", page
   5

# 2 - Air Duct

#### 3 - Screw

- □ 2 Nm
- Quantity: 2

### 4 - Bolt

- □ 8 Nm
- ☐ Quantity: 3 on each side

# 5 - Retaining Bracket

☐ Left

#### 6 - Air Duct

□ Left

# 7 - Bolt

- □ 8 Nm
- ☐ Quantity: 2 on each side
- ☐ For attaching the bumper carrier -9- to the lock carrier -1-

#### 8 - Bolt

- □ 60 Nm
- ☐ Quantity: 4 on each side

# 9 - Bumper Carrier

# 10 - Nut

- □ 8 Nm
- Quantity: 2
- ☐ For attaching the lock carrier support -15- to the bumper carrier -9-

#### 11 - Foam Piece

☐ Installed depending on the version

# 12 - Foam Piece

☐ Installed depending on the version

#### 13 - Air Duct

☐ Installed depending on engine and market

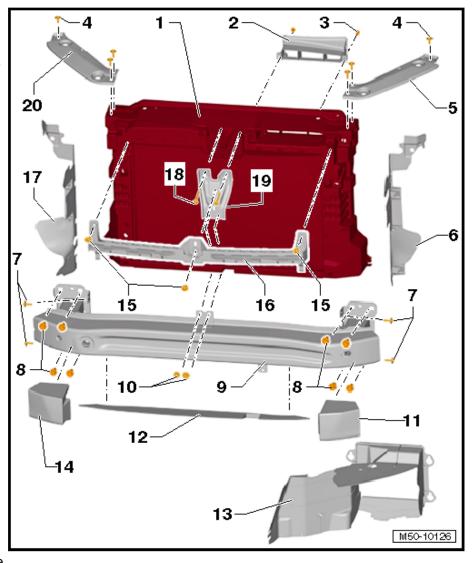
# 14 - Foam Piece

☐ Installed depending on the version

# 15 - Bolt

- □ 8 Nm
- Quantity: 3

# 16 - Center Guide



- ☐ Guide for the front bumper cover
- 17 Air Duct
  - ☐ Right
- 18 Bolt
  - □ 12 Nm
  - ☐ Quantity: 2
  - ☐ For attaching the lock carrier support to the lock carrier and latch
- 19 Support
- 20 Retaining Bracket
  - ☐ Right

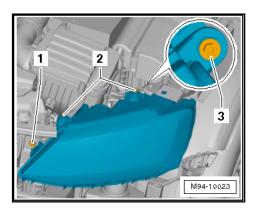
# 1.3 Service Position

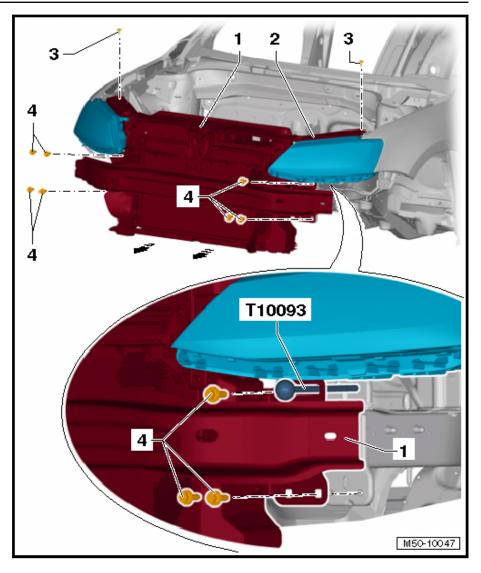
- ⇒ i1.3.1 nto Service Position", page 5
- ⇒ P1.3.2 osition, Resetting", page 7

# 1.3.1 Moving into Service Position

# Perform the Following:

 Remove the left and right bolts -3- on the back of the headlamp.



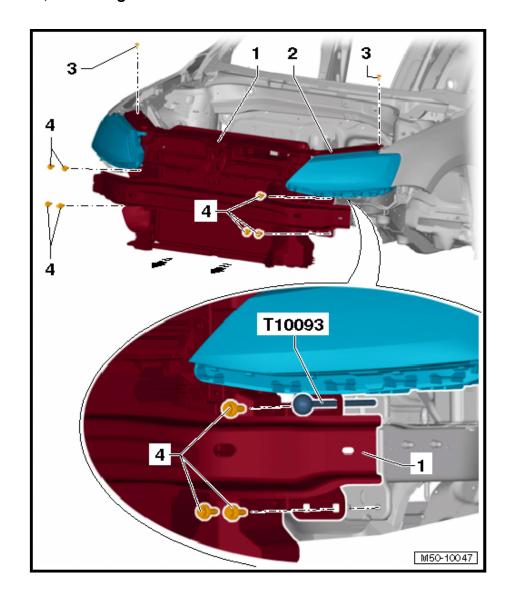


- Remove the front bumper cover. Refer to ⇒ B1.5 umper Cover, Removing and Installing", page 209.
- If the vehicle has a charge air cooler, disconnect the pressure hoses. Refer to ⇒ H1.5 oses, Removing and Installing", page 11.
- Remove only one bolt -4- from the left and right longitudinal members.
- Install the -T10093- into the holes in the left and right longitudinal member where the bolts were.
- Remove the remaining bolts -4- in the left and right longitudinal members.

Have a second technician hold the hood and support rod.

- Remover the upper left and right bolts -3- from the retaining brackets -2-.
- Pull the lock carrier and attachments -1- forward approximately 10 cm on the -T10093- -arrows-. Be careful of the wires on the lock carrier. Disconnect the connectors if necessary.

# 1.3.2 Service Position, Resetting



# Perform the following:

- Push the lock carrier with the attachments -1- onto the -T10093- on the longitudinal members.
- Install the bolts -3 and 4-.
- Align the lock carrier with the attachments -1- on the longitudinal members and between the fenders. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Front.

Bolt tightening specification -3-: 8 Nm

Bolt tightening specification -4-: 60 Nm

Install in reverse order of removal.



# Note

- Make sure that the charge air cooler pressure hoses are re-installed correctly. Refer to ⇒ H1.5 oses, Removing and Installing", page 11.
- ♦ The hoses and lines must not be pinched.

# 1.4 Lock Carrier with Attachments, Removing and Installing

⇒ 1.4.1 , page 8

⇒ 1.4.2 , page 9

# 1.4.1 Removing

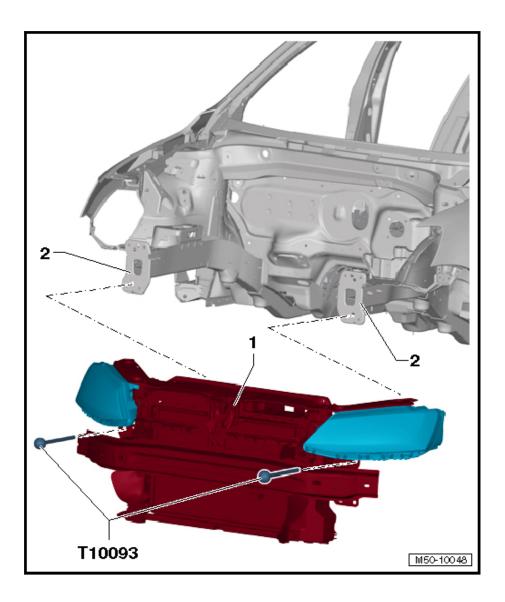
# Special tools and workshop equipment required

♦ Guide Pins -T10093-



# Note

- ♦ The lock carrier is a safety related component. For this reason it cannot be serviced.
- Replace the lock carrier if it is damaged.



# Perform the Following Procedures:

 Move into its service position. Refer to ⇒ i1.3.1 nto Service Position", page 5.

- Disconnect the battery ground cable with the ignition turned on. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.
- Disconnect any connectors.
- Drain the coolant and disconnect the coolant lines. Refer to ⇒ Rep. Gr. 19; Coolant System/Coolant; Coolant, Draining and Filling.
- Disconnect the refrigerant lines from the condenser. Refer to
   ⇒ Heating, Ventilation and Air Conditioning; Rep. Gr. 87; Refrigerant Circuit Service Work, Performed Only by Specially Trained Personnel in Suitable Workshops.
- Support the hood and remove the support rod from the hood.
- Together with a second technician, remove the -T10093- on the left and right longitudinal members -2- and remove the lock carrier -1-.



# **WARNING**

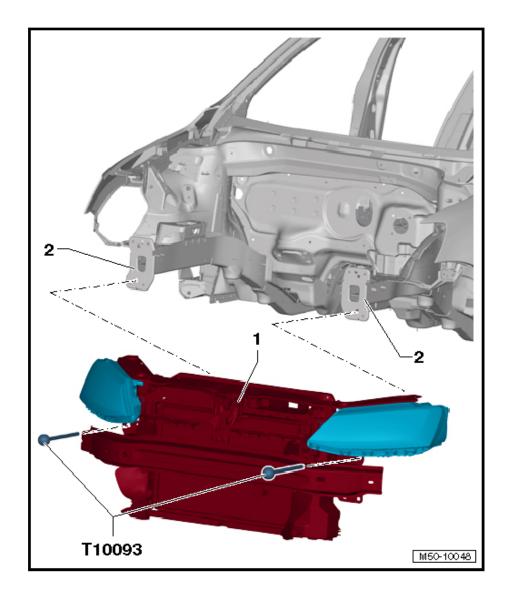
Do not start the engine whenever the A/C lines and/or coolant lines are disconnected.



# Note

- ♦ Never hang the condenser and the hydraulic fluid cooler on the lines.
- Never bend the condenser lines or the hydraulic fluid lines.

# 1.4.2 Installing



# Perform the Following Procedures:

- Attach the lock carrier -1- to the longitudinal members -2-.
- Install the -T10093- on the left and right sides.
- Move the lock carrier out of its service position. Refer to ≥ P1.3.2 osition, Resetting", page 7.

Perform the rest of the installation in the reverse order of removal.

- Make sure that all plug and hose connections are installed correctly when re-assembling.
- Connect the battery ground cable with the ignition switched on. Refer to  $\Rightarrow$  Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.
- Align the lock carrier with the attachments -1- on the longitudinal members and between the fenders. Refer to  $\Rightarrow$  Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Front.

# 1.5 Pressure Hoses, Removing and Installing

⇒ H1.5.1 ose and Coupling", page 11

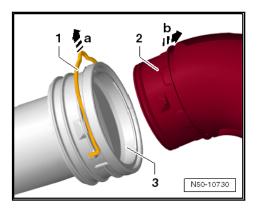
⇒ H1.5.2 ose with Threaded Connection and Clamp", page 12

# 1.5.1 Pressure Hose and Coupling

# **Unlocking the Pressure Hose**

# Perform the Following:

- Unlock the clip -1- in the direction of -arrow a-.

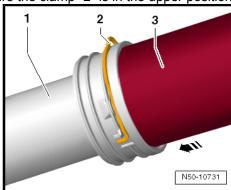


 Pull the pressure hose -2- out of the coupling -3- in the direction of the -arrow b-.

# Locking the Pressure Hose

# Perform the Following:

Make sure the clamp -2- is in the upper position.



- Insert the pressure hose -3- into the coupling -1- in the direction of the -arrow-.
- Push the clamp -2- all the way down.



### Note

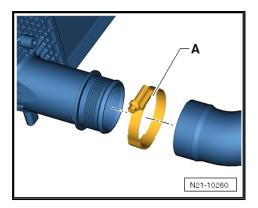
- ♦ If it is not possible to push the clamp all the way through, this means the pressure hose is not mounted far enough in the coupling.
- ♦ Push the pressure hose again and lock the clamp.
- Pull on the coupling to make sure it is secure.

#### Pressure Hose with Threaded Connec-1.5.2 tion and Clamp

# Removing the Pressure Hose

# Perform the following:

- Loosen the screw on the clamp -A-.

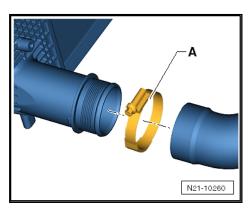


Remove the pressure hose and clamp -A- from the threaded connection.

# Installing the Pressure Hose

# Perform the following:

Push the pressure hose and clamp -A- all the way onto the threaded connection.



Tighten the screw on the clamp -A-.

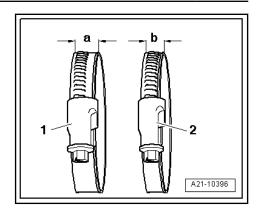


### Caution

The screw on the clamp -A- must be tightened to the exact tightening specification. Refer to ⇒ Fig. ""Clamp Tightening Specification"", page 12 . The pressure hose could slip off the threaded connection while the vehicle is being driven if the screw is too loose or it was overtightened.

# **Clamp Tightening Specification**





1 - Hose clamp -a- = 13 mm wide: 5.5 Nm

Clamp -b- = 9 mm wide: 3 Nm

#### **Fender** 2

- ⇒ 2.1 , page 14
- ⇒ -2.2 Front Fender", page 14
- ⇒ F2.3 ender, Removing and Installing", page 15
- ⇒ I2.4 nsulation and Foam Pieces, Fender and Fender End Plate", page 18
- ⇒ E2.5 nd Plate", page 18
- ⇒ B2.6 race, Removing and Installing", page 19

#### 2.1 **Tools**

Special tools and workshop equipment required

◆ Torque Wrench 1783 - 2-10Nm -VAG1783-

#### 2.2 Overview - Front Fender



# Note

The illustration shows the left side. The right side is identical.

#### 1 - Fender

Removing and installing. Refer to ⇒ F2.3 ender, Removing and Installing", page 15.

# 2 - Bolt

- ☐ Tightening specification: 6 Nm
- □ A-pillar, quantity: 1
- □ Wheel housing, quantity: 2
- ☐ Side sill, quantity: 1
- ☐ Fender brace, quantity: 2
- ☐ Fender connecting piece, quantity: 3

# 3 - Fender End Plate

Removing and installing. Refer to ⇒ E2.5 nd Plate", page 18.

# 4 - Noise Insulation, Fender End Plate

- □ Installed in front of the fender end plate. Refer to ⇒ I2.4 nsulation and Foam Pieces, Fender and Fender End Plate", page 18.
- Not installed in all model versions

# 5 - Foam Piece

 Inserted between the fender and the upper wheel housing longitude

wheel housing longitudinal member. Refer to  $\Rightarrow$  12.4 nsulation and Foam Pieces, Fender and Fender End Plate", page 18 .

# 6 - Fender Brace

□ Removing and installing. Refer to ⇒ B2.6 race, Removing and Installing", page 19.

# 7 - Bolt

- ☐ Tightening specification: 6 Nm
- ☐ Quantity: 2

# 2.3 Front Fender, Removing and Installing

⇒ 2.3.1 , page 15

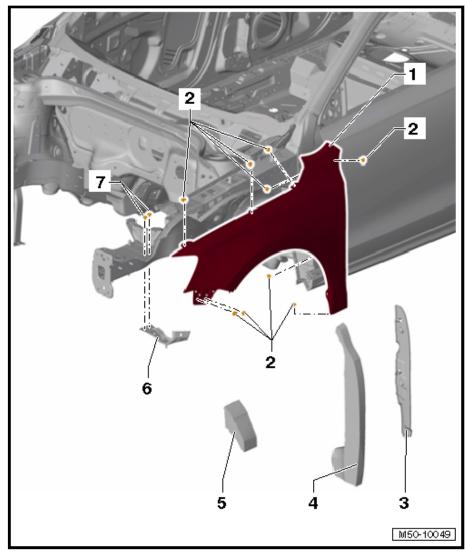
⇒ 2.3.2 , page 17

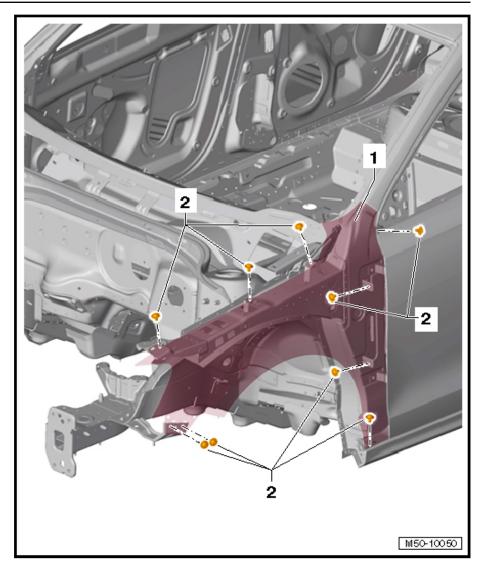
# 2.3.1 Removing



Note

The following describes the removal and installation of the left fender. Removing and installing the right fender is identical.





# Perform the Following:

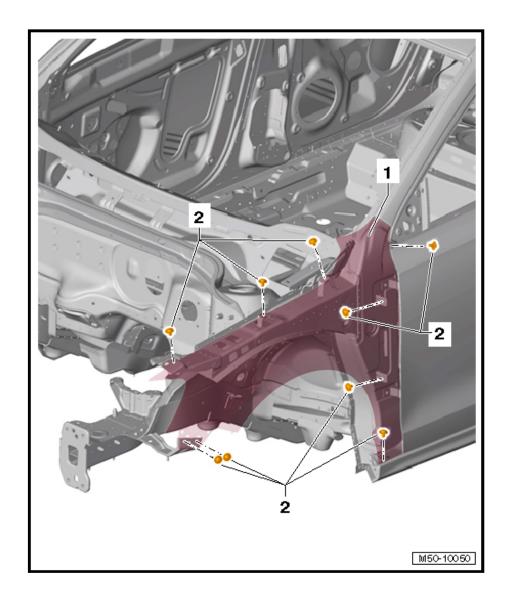
- Remove the front wheel housing liner. Refer to ⇒ W1.3 heel Housing Liner, Removing and Installing", page 286
- Remove the foam piece between the fender and the longitudinal member -item 5- ⇒ Item 5 (page 15).
- Remove the fender end plate noise insulation, if equipped, from the wheel housing -item 4- ⇒ Item 4 (page 15).
- Remove the fender end plate. Refer to ⇒ E2.5 nd Plate", page 18
- Remove the front bumper cover. Refer to ⇒ B1.5 umper Cover, Removing and Installing", page 209
- Remove the guide from the front bumper cover. Refer to ≥ -1.8 Front Bumper Cover Guides", page 213.
- If equipped, remove the drip rail. Refer to ⇒ R5.1 ail", page
- Remove the bolts -2-.
- Carefully remove the fender -1-.

# 2.3.2 Installing



Note

Install the fender -1- so that it is free of tension.



# Perform the Following:

Install the fender -1- in reverse order of removal.

- Noise insulation, foam pieces and tightening specifications
   -2-. Refer to ⇒ -2.2 Front Fender", page 14
- Note the parallel alignment and . Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Front.

#### Noise Insulation and Foam Pieces, Fender and Fender End Plate 2.4



# Note

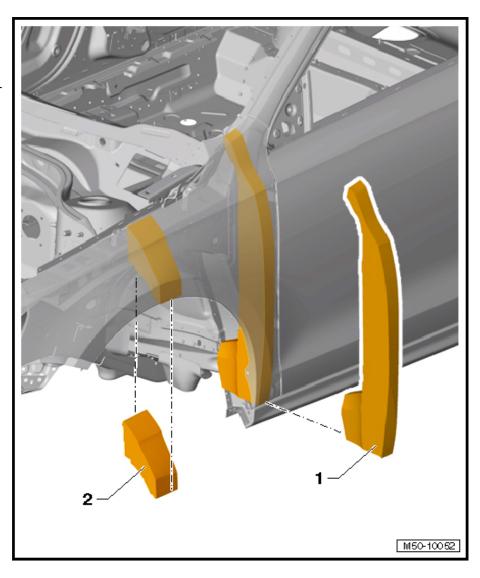
- The illustration shows the left side. The right side is identical.
- There may be different noise insulation and foam pieces installed.

### 1 - Noise Insulation, Fender **End Plate**

- ☐ Installed in front of the fender end plate
- Not installed in all model versions

#### 2 - Foam Piece

☐ Inserted between the fender and the upper wheel housing longitudinal member



#### 2.5 Fender End Plate



Note

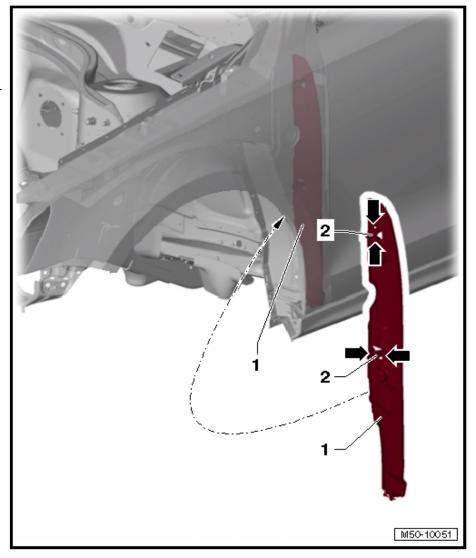
The illustration shows the left side. The right side is identical.

#### 1 - Fender End Plate

- Installed in front of the fillet plate on the fender
- Make sure the guide tab fits into the hole in the side sill when installed.

### 2 - Hooks

- Push together to remove from the fender end plate -arrows-
- ☐ Quantity: 2



# 2.6 Fender Brace, Removing and Installing

⇒ 2.6.1 , page 19

⇒ 2.6.2 , page 20

# 2.6.1 Removing

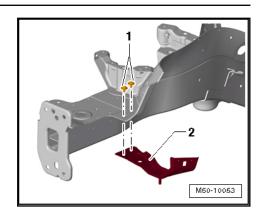


Note

The following describes the removal and installation of the left fender brace. Removing and installing the right fender brace is identical.

# Perform the Following:

- Remove the front bumper cover. Refer to  $\Rightarrow$  1.5.1 , page 209 .
- Remove the guide from the front bumper cover. Refer to ⇒
   1.8 Front Bumper Cover Guides", page 213.
- Remove the bolts that attach the front fender to the fender brace -2-. Refer to ⇒ -2.2 Front Fender", page 14.

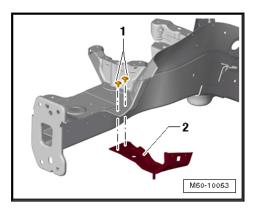


- Remove the bolts -1- and the fender brace -2-.

#### 2.6.2 Installing

# Perform the Following:

- Install the fender brace -2-.



- Install the bolt that attaches the front fender to the fender brace -2-. Refer to  $\Rightarrow$  -2.2 Front Fender", page 14
- Install the guide profile to the front bumper cover. Refer to ≥ -1.8 Front Bumper Cover Guides", page 213
- Install the front bumper cover. Refer to  $\Rightarrow$  1.5.1, page 209.
- The fender brace is aligned with the fender to the hood and bumper. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Front.

Bolt tightening specification -2-: 6 Nm

# 3 Plenum Chamber Cover

- ⇒ -3.1 Plenum Chamber Cover", page 21
- ⇒ C3.2 hamber Cover, Removing and Installing", page 21

# 3.1 Overview - Plenum Chamber Cover

# 1 - Right Plenum Chamber Cover

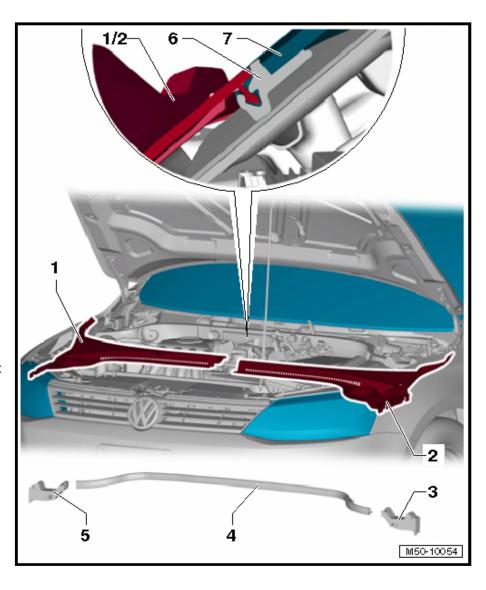
Removing and installing. Refer to ⇒
 C3.2 hamber Cover,
 Removing and Installing", page 21

# 2 - Left Plenum Chamber Cover

Removing and installing. Refer to ⇒
 C3.2 hamber Cover,
 Removing and Installing", page 21

# 3 - Molded Foam Part

- □ Left
- 4 Seal
- 5 Molded Foam Part
  - □ Right
- 6 Binding Profile
  - Windshield component
- 7 Windshield



# 3.2 Plenum Chamber Cover, Removing and Installing

⇒ 3.2.1 , page 21

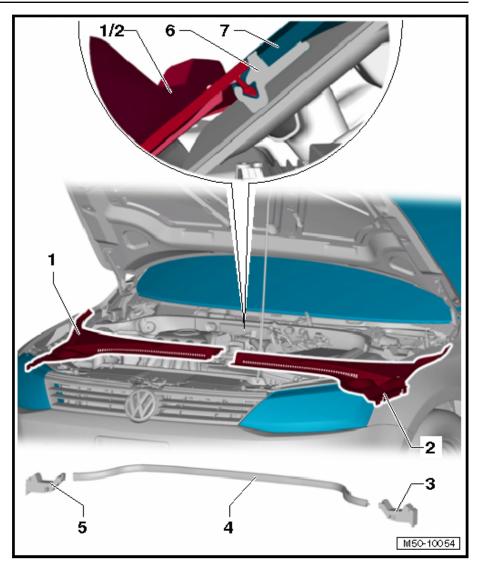
⇒ 3.2.2 , page 23

# 3.2.1 Removing



Note

Removing and installing the plenum chamber cover may differ slightly depending on the model.



# Perform the following:

- Remove the wiper arms. Refer to ⇒ Electrical Equipment; Rep. Gr. 92; Windshield Wiper System; Windshield Wiper Arms, Removing and Installing.
- Remove the seal -4- from the entire length of the plenum chamber covers -1 and 2-.



# Caution

The windshield -7- could break. Do not use a screwdriver, a wedge or any other prying tool to pry off the plenum chamber covers -1 and 2-. This could damage the windshield -7-, which could later crack.

- Lift the plenum chamber covers -1 and 2- at the edge of the windshield -7- by hand.
- Starting at the edge of the windshield -7- and working up, remove the plenum chamber covers -1 and 2- from the retainer -6-.

- Remove the left plenum chamber cover -2- forward and from the vehicle. Be careful of the horn between the windshield and fender when removing it.
- Remove the bracket that holds the lines for the spray nozzles from the right plenum chamber cover -1-.
- Remove the left plenum chamber cover -1- forward and from the vehicle. Be careful of the flange all the way around between the windshield and fender when removing it.

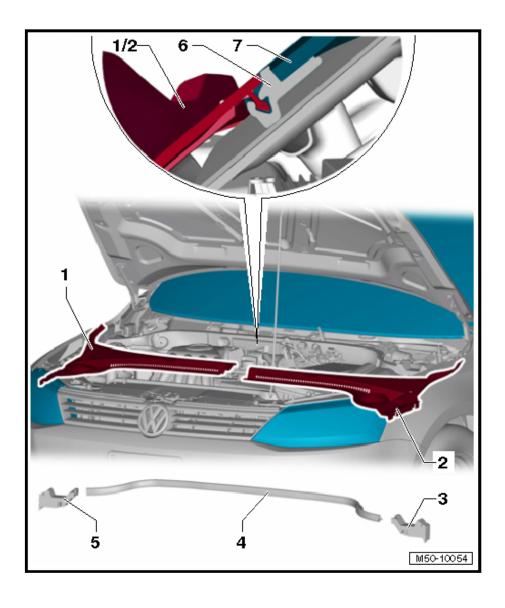
# 3.2.2 Installing



# Caution

The windshield -7- could break.

Using a hammer to install the plenum chamber covers -1 and 2- into the retainer -6- on the windshield -7- can cause the windshield to crack.



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### Note

- In new windshields, an insert is installed in the retainer. Remove this insert before installing the plenum chamber cover.
- Press the plenum chamber cover into the retainer gently by hand. Do not strike it or press on it with a tool under any circumstances.

### Perform the Following:

- Spray the retainer -6- with soapy water to make it easier to install the plenum chamber covers -1 and 2-.
- Insert the flange on the right plenum chamber cover -1- between the windshield and the fender.
- Make sure the side clip on the right plenum chamber cover -1- fits correctly into the top of the crossmember plate.
- Position the right plenum chamber cover -1- on the retainer -6- and then, starting in the middle, press it into the retainer -6- using light pressure.
- Remove the bracket that holds the lines for the spray nozzles, from the right plenum chamber cover -1-.
- Insert the flange on the left plenum chamber cover -2- between the windshield and the fender.
- Make sure the clip on the left plenum chamber cover -2- fits correctly into the top of the crossmember plate.
- Position the left plenum chamber cover -2- on the retainer -6- and then, starting in the middle, press it into the retainer -6- using light pressure.
- Install the seal -3-.
- Install the wiper arms. Refer to ⇒ Electrical Equipment; Rep. Gr. 92; Windshield Wiper System; Windshield Wiper Arms, Removing and Installing.

#### 4 **Noise Insulation**

- ⇒ -4.1 Noise Insulation", page 25
- ⇒ I4.2 nsulation, Removing and Installing", page 27

#### 4.1 Overview - Noise Insulation

- ⇒ -4.1.1 Noise Insulation, Gasoline Engine", page 25
- ⇒ -4.1.2 Diesel Engine Noise Insulation", page 26
- ⇒ -4.1.3 Impact Guard", page 26

#### 4.1.1 Overview - Noise Insulation, Gasoline Engine



# Note

Depending on the engine version, slight deviations must be considered when removing and installing.

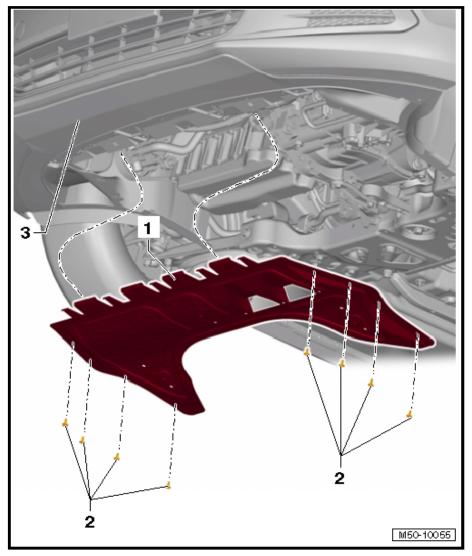
#### 1 - Noise Insulation

☐ Removing and Installing. Refer to ⇒
14.2.1 nsulation, Removing and Installing, Gasoline Engine", page

# 2 - Bolts

- □ 2 Nm
- Quantity: 4 on each side

# 3 - Front Bumper Cover



#### Overview - Diesel Engine Noise Insulation 4.1.2



# Note

Depending on the engine version, slight deviations must be considered when removing and installing.

#### 1 - Noise Insulation

□ Removing and Installing. Refer to <u>⇒</u> 14.2.2 nsulation, Removing and Installing, Diesel Engine", page 28 .

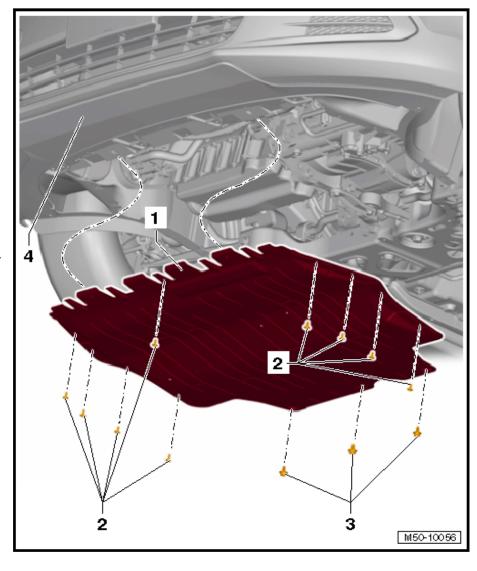
#### 2 - Bolts

- □ 2 Nm
- Quantity: 4 on each side and one in the front

#### 3 - Bolts

- □ 6 Nm
- ☐ Microencapsulated, to be replaced after every removal
- Allocation. Refer to the Parts Catalog.
- □ Quantity: 3

# 4 - Front Bumper Cover



#### **Overview - Impact Guard** 4.1.3



# Note

Depending on the engine version, slight deviations must be considered when removing and installing.

# 1 - Pop Rivet Nut

- Allocation. Refer to the Parts Catalog.
- ☐ Quantity: 3

# 2 - Bolts

- □ 35 Nm
- ☐ Microencapsulated, to be replaced after every removal
- Allocation. Refer to the Parts Catalog.
- Quantity: 3

#### 3 - Bolts

- □ 20 Nm
- Quantity: 4

# 4 - Left Retaining Bracket

#### 5 - Bolts

- □ 2 Nm
- Allocation. Refer to the Parts Catalog.
- Quantity: 4

#### 6 - Bolts

- □ 20 Nm
- Quantity: 2

# 7 - Impact Guard

□ Removing and Installing. Refer to ⇒ G4.2.3 uard, Removing and Installing", page <u> 29</u> .

# 8 - Nut

- □ 20 Nm
- ☐ Allocation. Refer to the Parts Catalog.

# 9 - Right Retaining Bracket

#### 4.2 Noise Insulation, Removing and Installing

⇒ I4.2.1 nsulation, Removing and Installing, Gasoline Engine",

⇒ I4.2.2 nsulation, Removing and Installing, Diesel Engine",

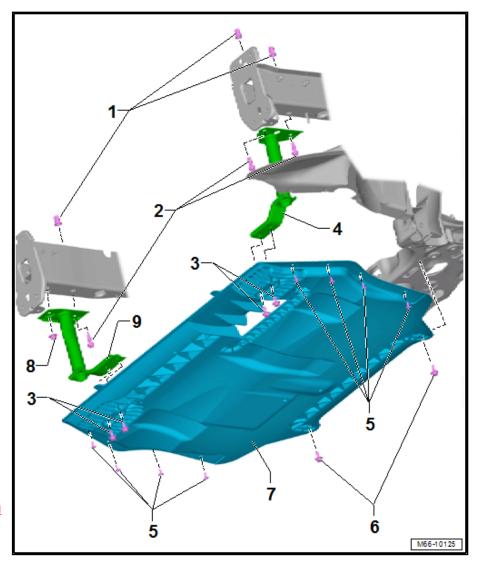
⇒ G4.2.3 uard, Removing and Installing", page 29

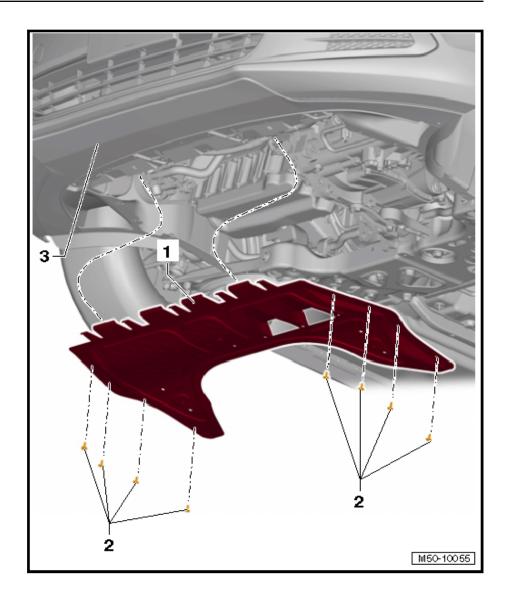
#### 4.2.1 Noise Insulation, Removing and Installing, Gasoline Engine



Note

Depending on the engine version, slight deviations must be considered when removing and installing.





# Removing

- Remove the bolts -2-.
- Remove the noise insulation from the front bumper cover -3-.

# Installing

Install in reverse order of removal. Note the following.

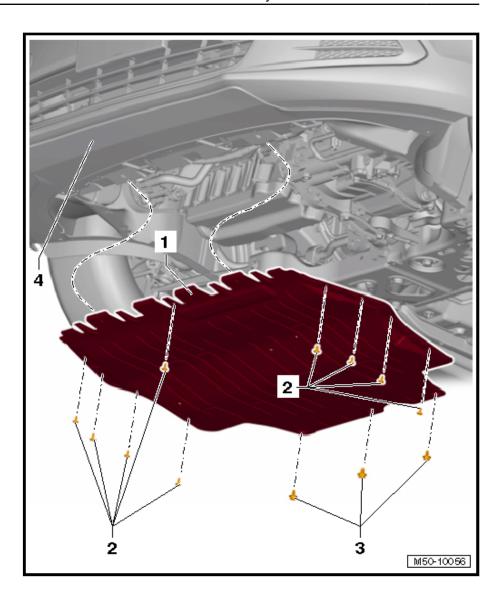
Refer to ⇒ -4.1.1 Noise Insulation, Gasoline Engine", page

#### 4.2.2 Noise Insulation, Removing and Installing, Diesel Engine



Note

Depending on the engine version, slight deviations must be considered when removing and installing.



# Removing

- Remove the bolts -2 and 3-.
- Remove the noise insulation from the front bumper cover -4toward the rear.

# Installing

Install in reverse order of removal. Note the following.

◆ Refer to ⇒ -4.1.2 Diesel Engine Noise Insulation", page 26

### 4.2.3 Impact Guard, Removing and Installing

# Special tools and workshop equipment required

♦ Torque Wrench 1783 - 2-10Nm -VAG1783-

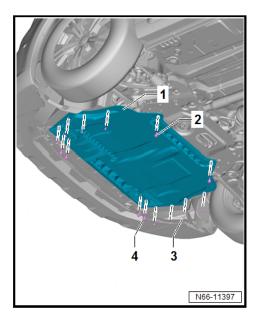
# Removing



Note

Depending on the engine version, slight deviations must be considered when removing and installing.

Remove the bolts -2, 3 and 4-.



- Remove the impact guard -1- downward.

# Installing

Install in reverse order of removal.

# 5 Underbody Trim Panels

- ⇒ 5.1 , page 31
- ⇒ -5.2 Underbody Panel", page 31
- ⇒ R5.3 ear Underbody Trim Panel", page 32

# 5.1 Tools

Special tools and workshop equipment required

◆ Torque Wrench 1783 - 2-10Nm -VAG1783-

# 5.2 Overview - Underbody Panel



# Note

The illustration shows the right side. The left side is identical.

# 1 - Underbody Trim Panel

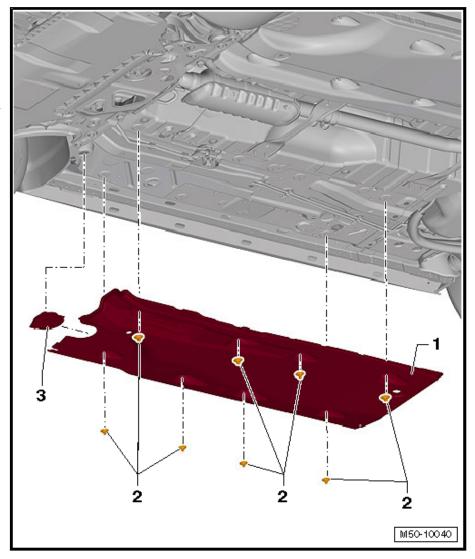
- ☐ Removing:
- Remove the nuts -2-.
- Pull the underbody panel toward the rear off the cover -3- and remove it.

# 2 - Nut

- ☐ Tightening specification: 2 Nm
- ☐ Quantity: 8
- Held in place by the tabs on the underbody trim panel

# 3 - Cover

- □ Removing:
- Remove the cover from the mount.



### Right Rear Underbody Trim Panel 5.3



# Note

Depending on model version, the right rear underbody trim panel has minor differences.

# 1 - Right Rear Underbody Trim Panel

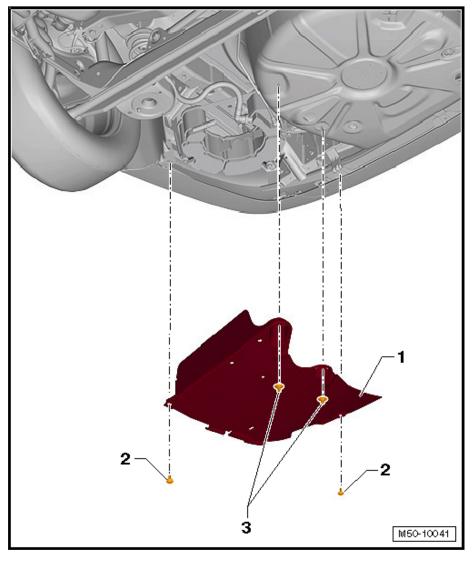
- ☐ There are different versions. Refer to the Parts Catalog for the allocation.
- □ Removing:
- Remove the bolts -2-.
- Remove the nuts -3and the right rear underbody trim panel.

# 2 - Screw

- ☐ Tightening specification: 2.7 Nm
- ☐ Quantity: 2 or 3 depending on the version of the right rear underbody trim panel

# 3 - Nut

- ☐ Tightening specification: 2 Nm
- Quantity: 2
- ☐ Held in place by the tabs on the right rear underbody trim panel



### Bulkhead 6

⇒ 6.1 , page 33

⇒ 6.2 , page 33

⇒ -6.3 Bulkhead", page 33

### 6.1 **Tools**

# Special tools and workshop equipment required

- ♦ Torque Wrench 1331 5-50Nm -VAG1331-
- ◆ Cartridge Heater -VAG1939-
- ♦ Cartridge Gun -VAG1628-

### 6.2 **Materials**

♦ One-Part Window Adhesive DH 009 100 A2 1) 2)

♦ Activator D 181 801 A1

♦ Glass Primer/Paint Primer D 009 200 02

♦ Cleaning Solution D 009 401 04

Primer Applicator D 009 500 25

### Overview - Bulkhead 6.3



Note

The bulkhead -1- is bolted and also bonded in with PUR adhesive sealant -4-.

<sup>1)</sup> Heat according to manufacturer's instructions using -VAG1939A-.

<sup>2)</sup> Note the minimum curing time. Refer to  $\Rightarrow$  C1.15 uring Time", page 241

# 1 - Bulkhead

- ☐ Removing:
- Cut through the bead of adhesive -4- after removing the screws -3-.

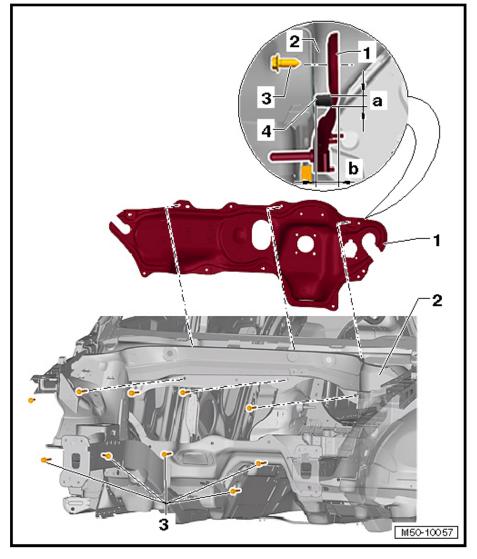
# 2 - Body Flange

# 3 - PUR Adhesive Sealant

- Bead diameter: width -a- = 8 mm, height -B-= 10 mm
- ☐ Minimum Curing Time. Refer to ⇒ C1.15 uring Time", page 241.

# 4 - Bolt

- ☐ Tightening specification: 25 Nm
- ☐ Quantity: 10



### 7 **Tunnel Brace**

# ⇒ 7.1 , page 35

⇒ -7.2 Tunnel Brace", page 35

### 7.1 **Tools**

# Special tools and workshop equipment required

◆ Torque Wrench 1331 5-50Nm -VAG1331-

### 7.2 **Overview - Tunnel Brace**



Note

The -arrow- points in the direction of travel.

# 1 - Front Tunnel Brace

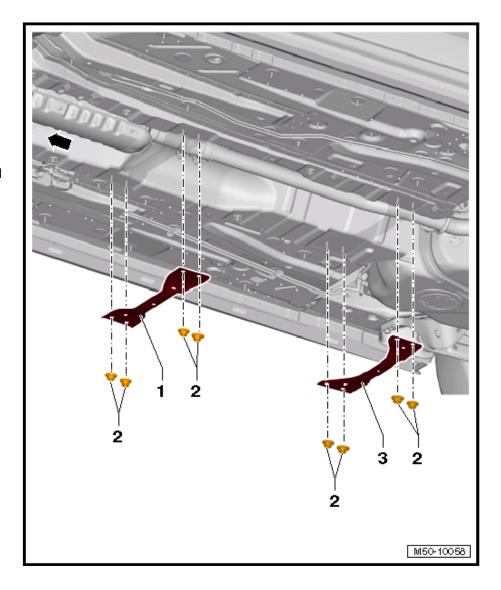
- ☐ Removing:
- Remove the nuts -2-(quantity: 2 on each side).

# 2 - Hex Nut

- ☐ Tightening specification: 20 Nm
- Quantity: 4 per tunnel bridge

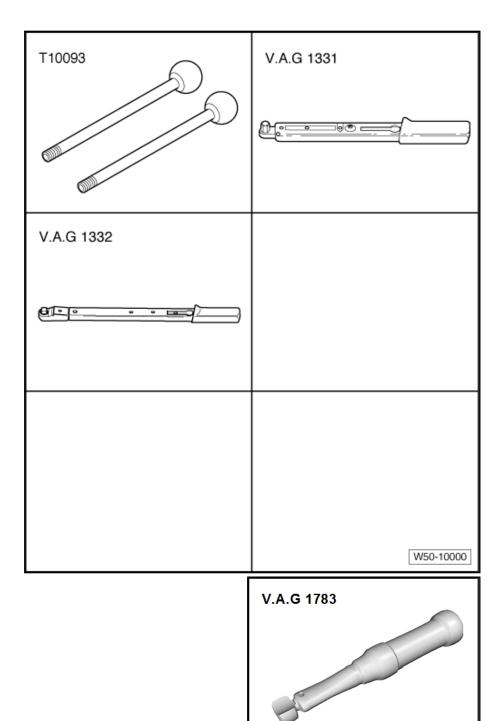
# 3 - Rear Tunnel Brace

- ☐ Removing:
- Remove the nuts -2-(quantity: 2 on each side).



### **Special Tools** 8

# Special tools and workshop equipment required



W00-11189

- Guide Pins -T10093-
- Torque Wrench 1331 5-50Nm -VAG1331-
- Cartridge Gun -VAG1628-
- Cartridge Heater -VAG1939-
- Torque Wrench 1783 2-10Nm -VAG1783-



V.A.G 1331	V.A.G 1939
Ste sand	
V.A.G 1628	
	W50-10002

# Hood, Lids

# Hood

- ⇒ 1.1 , page 38
- ⇒ -1.2 Hood", page 38
- ⇒ R1.3 emoving and Installing", page 40
- ⇒ H1.4 inge, Removing and Installing", page 42
- ⇒ R1.5 emoving and Installing", page 43
- ⇒ -1.6 Seals", page 45
- ⇒ R1.7 od, Removing and Installing", page 46
- ⇒ -1.8 Hood Locking and Unlocking Components", page 48
- ⇒ C1.10 able, Removing and Installing", page 52
- ⇒ C1.11 able, Removing and Installing", page 54
- ⇒ P1.12 in, Removing and Installing", page 55
- ⇒ L1.13 ever, Removing and Installing", page 56
- ⇒ A1.14 djusting", page 59

### 1.1 **Tools**

# Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm -VAG1331-
- ♦ Pry Lever -80-200-

### 1.2 Overview - Hood

### 1 - Hood

- Removing and installing. Refer to ⇒ R1.3 emoving and Installing", page 40
- □ Refer to ⇒ A1.14 djusting", page 59 for adjusting.

# 2 - Adjusting Buffer

# 3 - Center Seal

□ Left and right

## 4 - Striker Pin

- Removing and installing. Refer to ⇒ P1.12 in, Removing and Installing", page <u>55</u> .
- Refer to ⇒ P1.14.2 in, Adjusting", page 61 for adjusting.

# 5 - Insulation

□ Removing and installing. Refer to ⇒ R1.5 emoving and Installing", page 43

# 6 - Hinge

- □ Removing and installing. Refer to ⇒ H1.4 inge, Removing and Installing", page
- ☐ Refer to ⇒ A1.14 djusting", page 59 for adjusting.

# 10 11 8 M55-10064

# 7 - Support Rod

□ Removing and installing. Refer to ⇒ R1.7 od, Removing and Installing", page 46.

# 8 - Latch

- ☐ Removing and installing. Refer to ⇒ R1.9 emoving and Installing", page 49.
- □ Refer to ⇒ A1.14.1 djusting", page 60 for adjusting.

# 9 - Bolt

- ☐ Tightening specification: 22 Nm.
- Quantity: 2 on each side

# 10 - Nut

- ☐ Tightening specification: 22 Nm.
- ☐ Quantity: 2 on each side

# 11 - Spray Nozzles

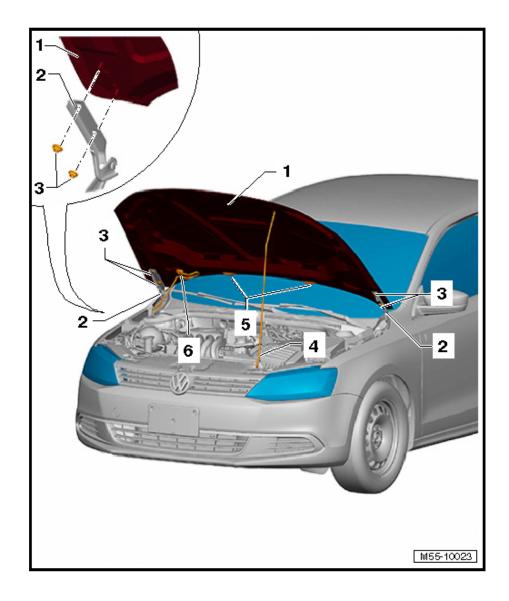
☐ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 92; Windshield Washer System; Spray Nozzles, Removing and Installing.

### 1.3 Hood, Removing and Installing

⇒ 1.3.1 , page 40

⇒ 1.3.2 , page 41

### 1.3.1 Removing



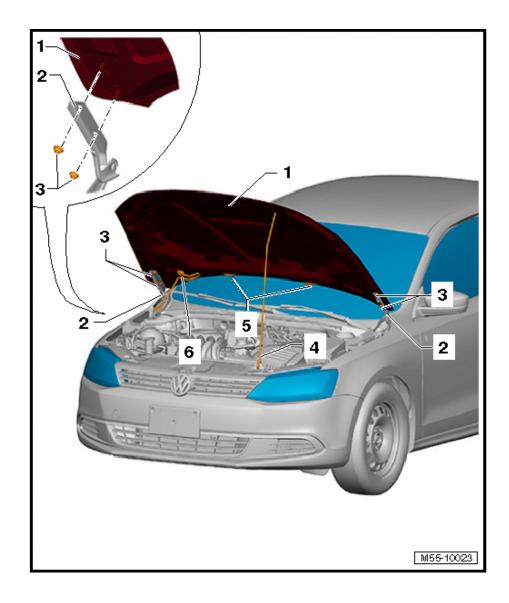
# Perform the following:

- Remove the spray nozzles -5-. Refer to ⇒ Electrical Equipment; Rep. Gr. 92; Windshield Washer System; Spray Nozzles, Removing and Installing.
- Unclip the line -6- from the hood -1-.
- Remove the line -6- from the hood opening -1-.

A second technician is required for the rest of the removal procedure.

- Remove the support rod -4- from the hood.
- Remove the nuts -3- and the hood -1- from the hinges -2-.

### 1.3.2 Installing



# Perform the Following:

Install the hood -1- in reverse order of removal.



# Note

Route the washer fluid line -6- in one bow. If the line is installed twisted, it will kink.

Nut -3- tightening specification: 22 Nm

Adjust the hood -1-. Refer to ⇒ A1.14 djusting", page 59.

### Hood Hinge, Removing and Installing 1.4

⇒ 1.4.1 , page 42

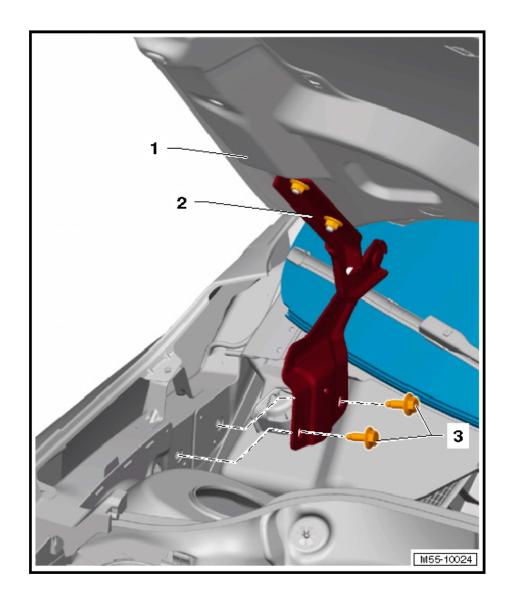
⇒ 1.4.2 , page 43

### Removing 1.4.1



Note

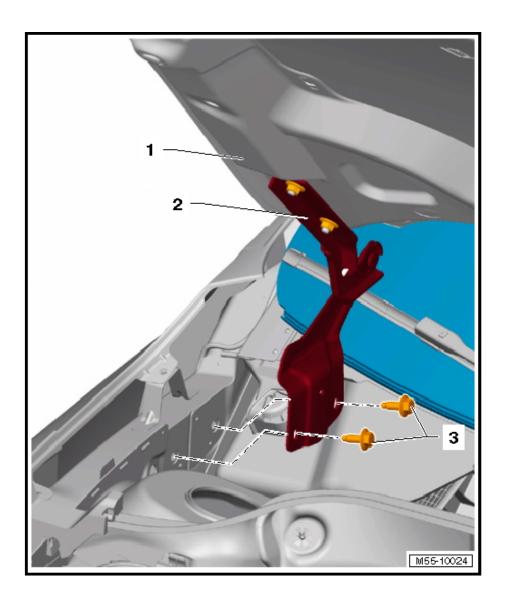
The following describes the removal and installation of the right hinge. Removing and installing the left hinge is identical.



# Perform the Following:

- Remove the hood -1-. Refer to <u>⇒ R1.3 emoving and Instal-</u> ling", page 40
- Remove the plenum chamber cover. Refer to  $\Rightarrow$  C3.2 hamber Cover, Removing and Installing", page 21
- Remove the bolts -3-.
- Remove the hinge -2-.

### 1.4.2 Installing



# Perform the Following:

Install the hinge -2- in reverse order of removal.

Tightening specification for the bolts -3-: 22 Nm

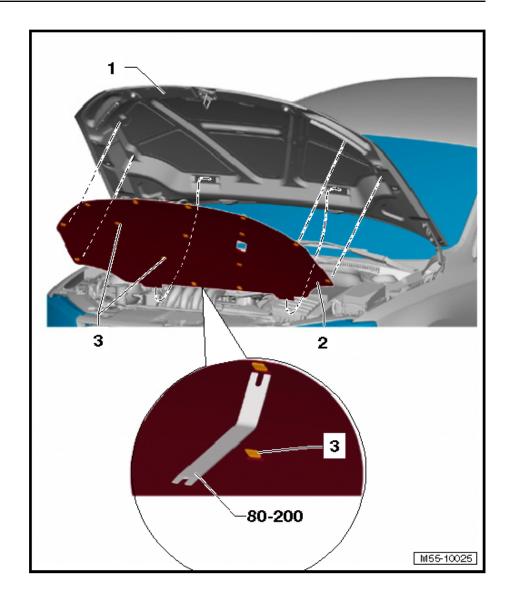
- Install the plenum chamber cover. Refer to ⇒ C3.2 hamber Cover, Removing and Installing", page 21
- Install the hood -1-. Refer to ⇒ R1.3 emoving and Installing", <u>page 40</u> .

### Insulation, Removing and Installing 1.5

⇒ 1.5.1 , page 43

⇒ 1.5.2 , page 44

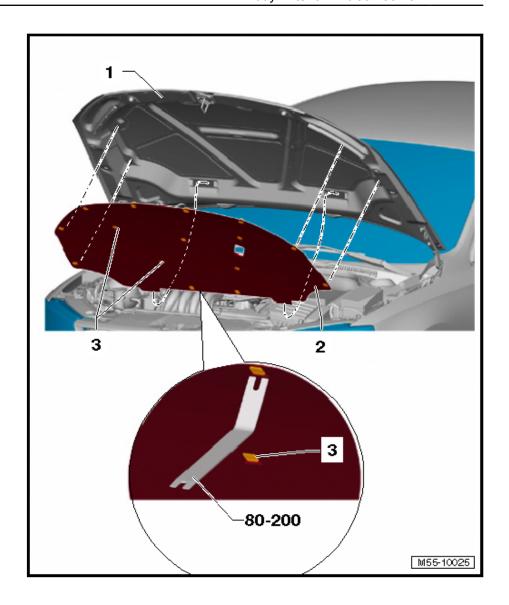
### Removing 1.5.1



# Perform the Following:

- Support the hood -1- and remove the support rod from the hood.
- Remove the clips -3- from the hood -1- with the -80-200-.
- Remove the noise insulation -2- from the oblong holes in the hood -1-.

### 1.5.2 Installing



# Perform the Following:

- When installing the noise insulation -2-, be sure to install the clips -3- with the wide side facing out.
- Install the noise insulation -2- with the mounting tabs into the oblong holes in the hood -1-.
- Lock all the clips -3- into the hood -1-.

### 1.6 Overview - Seals

# 1 - Hood

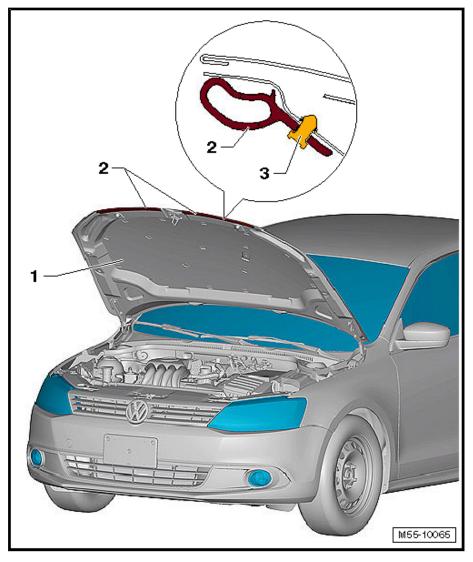
- □ Removing and installing. Refer to ⇒ R1.3 emoving and Installing", page 40
- ☐ Refer to ⇒ A1.14 djusting", page 59 for adjusting.

# 2 - Center Seal

- □ Removing:
- Remove the center seal from the hood.
- ☐ Installing:
- Push the seal together with the clips -3- back into the center of the hood.

# 3 - Clip

☐ Check for damage before installing and replace if necessary.

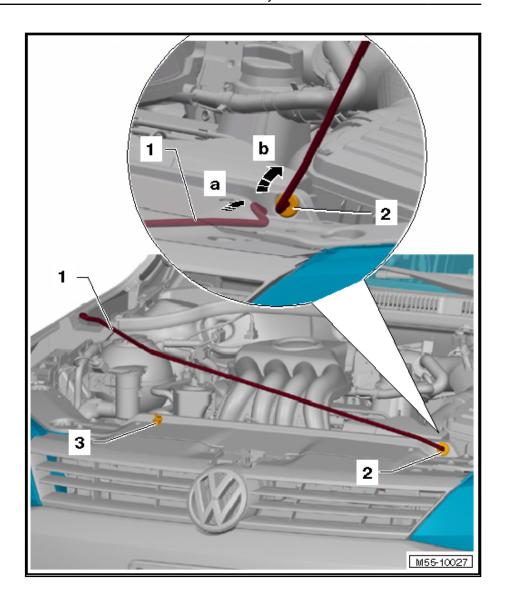


### Support Rod, Removing and Installing 1.7

⇒ 1.7.1 , page 46

⇒ 1.7.2 , page 47

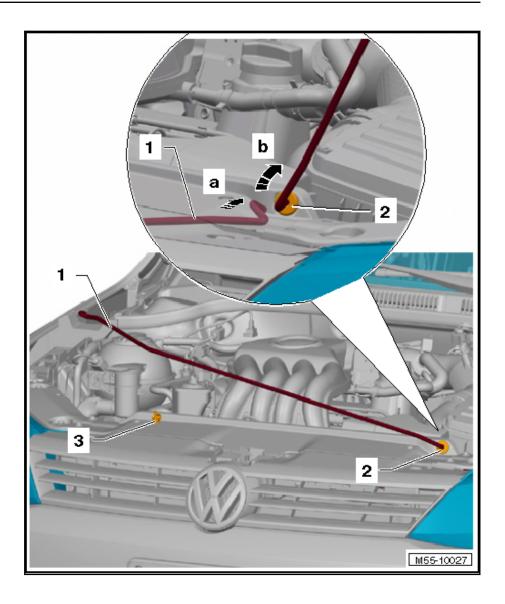
### 1.7.1 Removing



# Perform the Following:

- Support the hood.
- Move the support rod -1- forward.
- Remove the support rod -1- from the rubber grommet -2-.

### 1.7.2 Installing



# Perform the following:

- Check the retainer -3- for damage. Replace it if necessary.
- Install the support rod -1- into the rubber grommet -2- in direction of -arrow a-.
- Move the support rod -1- back to the lock carrier in direction of -arrow b-.

### Overview - Hood Locking and Unlocking Components 1.8

# 1 - Operating Lever

□ Removing and Installing. Refer to ⇒ L1.13 ever, Removing and Installing", page 56

# 2 - Screws

- □ 1.5 Nm
- 3 Mounting Bracket
- 4 Expanding Nuts

# 5 - Release Cable

☐ From the mounting bracket to the coupling

# 6 - Grommet

# 7 - Coupling

# 8 - Release Cable

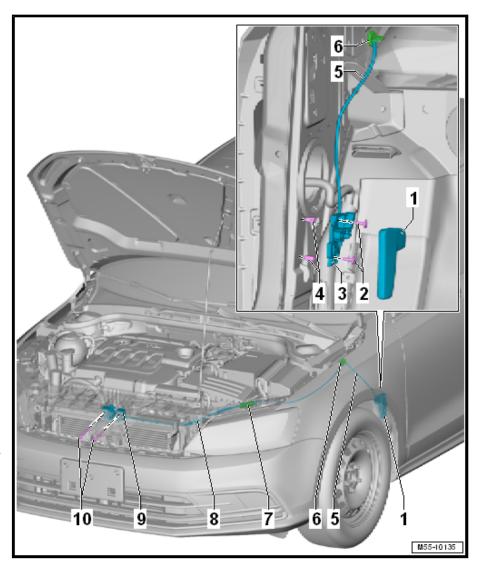
☐ From the coupling to the latch

# 9 - Latch

- ☐ Latch, Removing and Installing. Refer to ⇒ R1.9 emoving and Installing", page 49
- □ Adjusting. Refer to ⇒ A1.14.1 djusting", page 60

# 10 - Screws

☐ 12 Nm

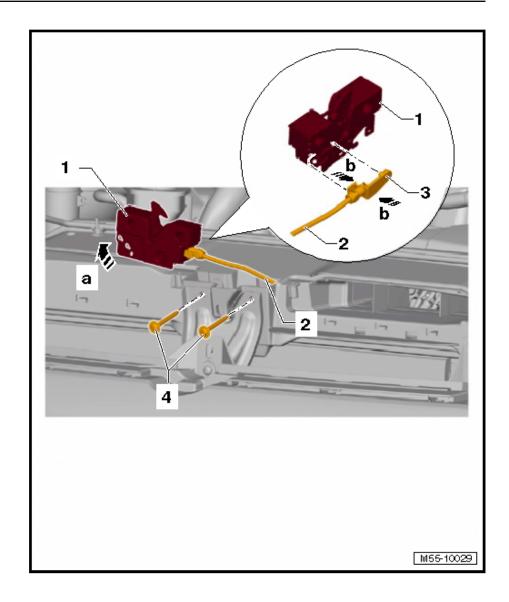


### Latch, Removing and Installing 1.9

⇒ 1.9.1 , page 49

⇒ 1.9.2 , page 51

### 1.9.1 Removing



# Perform the Following:

- Open the hood.
- Remove the radiator grille. Refer to <u>⇒ G3.2 rille, Removing</u> and Installing", page 317
- Disconnect the cable -2- at the cable coupling. Refer to ≥ C1.10 able, Removing and Installing", page 52.
- Disconnect the connector from the Engine Hood Contact Switch -F266- (if equipped).



# Note

The connector is attached to the top of the lock carrier on the left side.

- Remove the bolts -4- from the lock carrier and remove the lid latch -1- upward in direction of -arrow a-.
- If equipped, guide the Engine Hood Contact Switch -F266wire out of the lock carrier.
- Press the tabs in direction of -b arrows- and remove the bracket -3-.

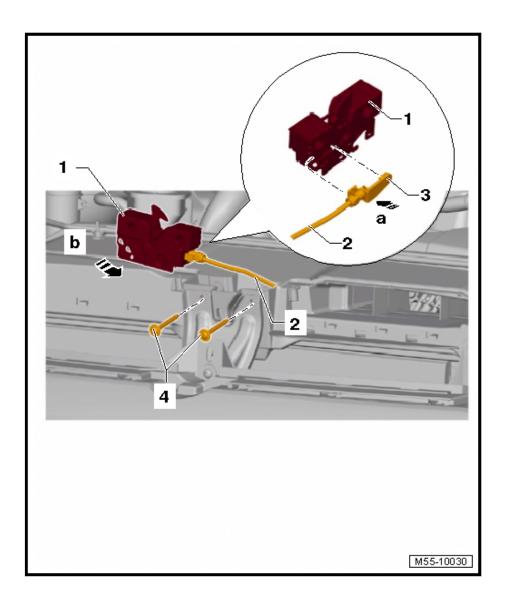
After loosening the catch on the bracket, remove the cable -2- from the latch -1-.



# Note

Removing and installing the Engine Hood Contact Switch -F266- on the latch. Refer to ⇒ Electrical Equipment; Rep. Gr. 96; Anti-Theft Alarm System; Engine Hood Contact Switch -F266-, Removing and Installing.

### Installing 1.9.2



# Perform the following:

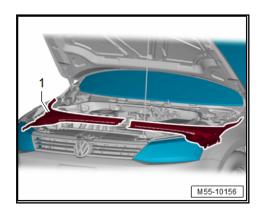
- Attach the cable -2- to the latch -1- and clip the bracket -3- into the latch -1- in direction of -arrow a-.
- If equipped, guide the Engine Hood Contact Switch -F266wire back into the lock carrier.
- Install the latch -1- in the lock carrier in direction of -arrow b-.
- Install the bolts -4-.

Tightening specification for the bolts -4-: 12 Nm.

- Connect the connector to the Engine Hood Contact Switch -F266-, (if equipped).
- Connect the cable -2- at the cable coupling. Refer to ≥ C1.10 able, Removing and Installing", page 52
- Adjust the latch. Refer to ⇒ A1.14.1 djusting", page 60.
- Install the radiator grille. Refer to <u>⇒ G3.2 rille, Removing and</u> Installing", page 317
- Before closing the hood, make sure the hood release lever and the cable are working correctly.

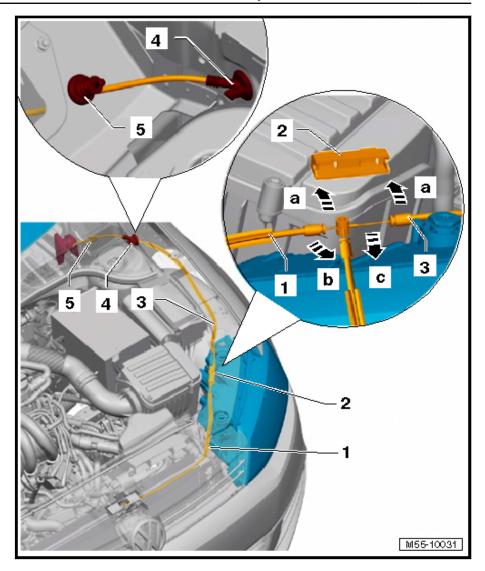
### Release Cable, Removing and Instal-1.10 ling

# Removing



- Open the hood.
- Remove the plenum chamber cover (depending on the marker on the left or right).





- Remove the cover for the cable coupling -2- above the head-lamp on the driver side from the lock carrier.
- Remove the cover -2- from the cables -1 and 3- in direction of -arrows a-.
- Move the cable -1-  $90^\circ$  in direction of -arrow b- and then remove it -1- from the its mount -3- in direction of -arrow c-.



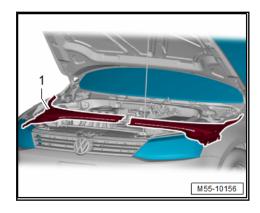
# Note

Make sure the grommets -4 and 5- are installed correctly when installing the cable -3-.

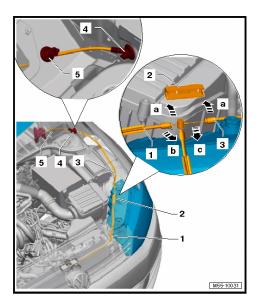
Before closing the hood, make sure the release lever and the cable are working correctly.

### Hood Cable, Removing and Installing 1.11

# Removing



- Open the hood.
- Remove the plenum chamber cover (on the left or right side depending on the market).



- Unclip the cable coupling cover -2- above the headlight on the driver side from the lock carrier.
- Remove the cover -2- from the cables -1 and 3- (-A arrows-).
- Tilt the cable -1- 90° -arrows B- and remove cable -1- in the direction of -arrows C- from the cable mount -3-.

# Installing



# Note

When installing the cable -3-, make sure the grommets -4 and 5- are attached correctly.

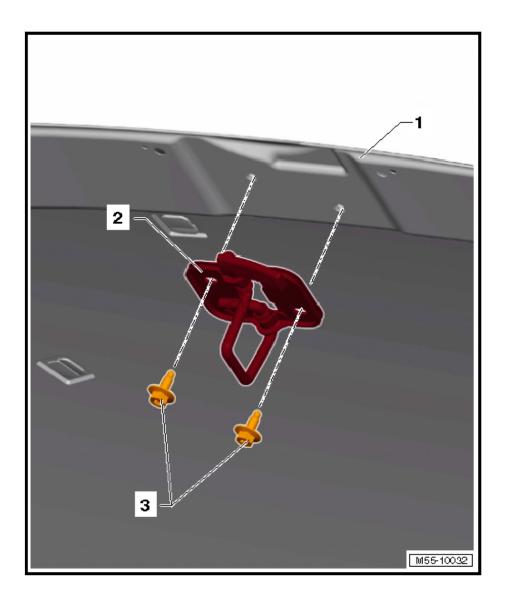
Test the function of the operating lever and the cables before closing the hood.

# 1.12 Striker Pin, Removing and Installing

⇒ 1.12.1 , page 55

⇒ 1.12.2 , page 55

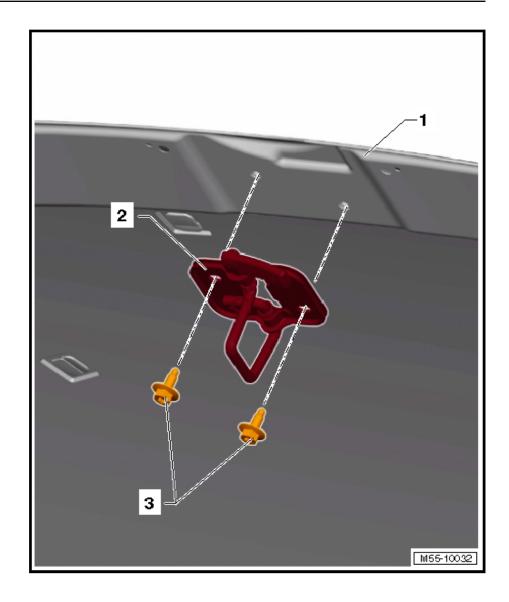
# 1.12.1 Removing



# Perform the Following:

- Open the hood -1-.
- Remove the bolts -3-.
- Remove the catch -2- from the hood -1-.

# 1.12.2 Installing



# Perform the Following:

Install the hood catch -2- in reverse order of removal.

Bolt tightening specification -3-: 10 Nm

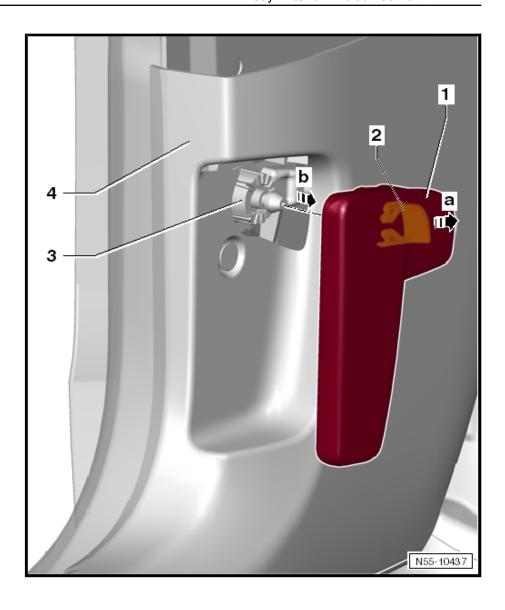
Adjust the striker pin. Refer to ⇒ P1.14.2 in, Adjusting", page

# 1.13 Release Lever, Removing and Installing

⇒ 1.13.1 , page 56

⇒ 1.13.2 , page 57

### Removing 1.13.1

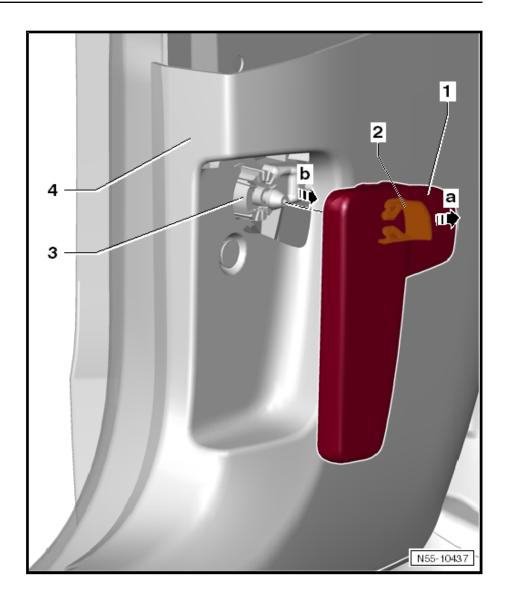


# Perform the following:

- Pull the hood release lever -1- and release the hood.
- Insert a small screwdriver into the gap between the release lever -1- and the clip -2-.
- Pry the clip -2- out of the release lever -1- in direction of -arrow a- and then remove the release lever from the mounting bracket -3- in direction of -arrow b-.

It is necessary to remove the lower trim on the A-pillar -4- if additional work must be performed on the mounting bracket -3-. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.

### 1.13.2 Installing



# Perform the Following:

- The A-pillar lower trim -4- is installed.
- Slide the clip -2- into the release lever -1-.
- Install the hood release lever -1- on the mounting bracket -3-.
- Before closing the hood, make sure the hood release lever and the cable are working correctly.

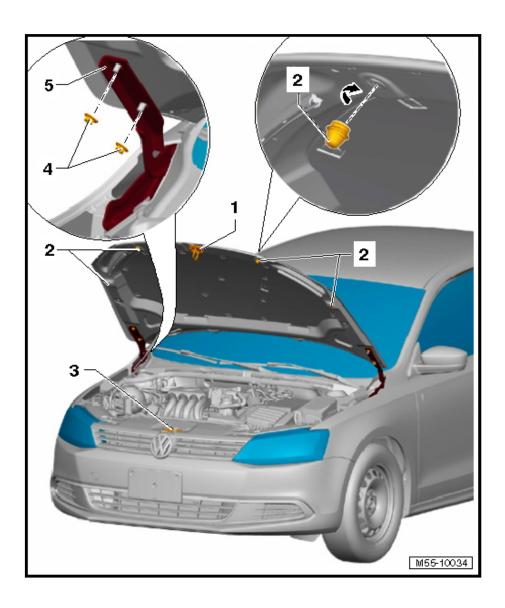
### 1.14 Hood, Adjusting

- ⇒ A1.14.1 djusting", page 60
- ⇒ P1.14.2 in, Adjusting", page 61



# Note

- The vehicle must be on all four wheels when adjusting the hood.
- The left and right adjusting buffers -2- are not meant for adjusting. Their function is to stabilize and to cushion the hood.
- The hood is properly adjusted when there is an overall even gap dimension when closed, it is not too far inward or outward and contours align.
- ♦ The hood must engage into the latch without using much force.
- Do not remove the nuts -4-. Only loosen them.

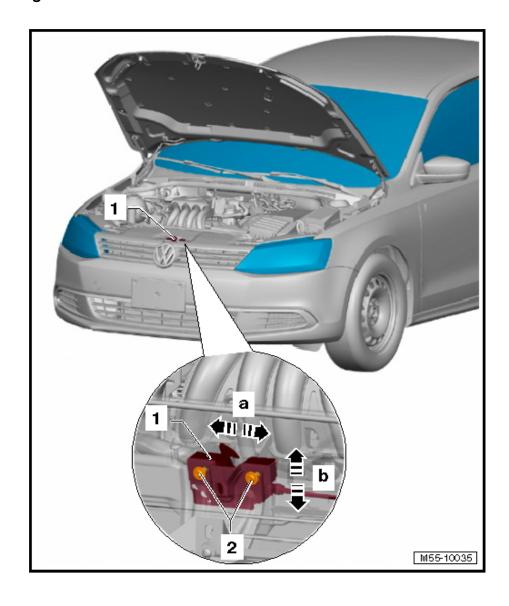


# Perform the Following:

Remove the catch -1-. Refer to ⇒ P1.12 in, Removing and Installing", page 55

- Loosen, but do not remove, the left and right nuts -4- on the hood hinge -5- and then align the hood between the fenders.
- Make sure the gap dimensions are even. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Front
- After adjustment work, apply corrosion protection to the hinges -5- and the nuts -4-.
- Turn the adjusting buffer -2- in direction of -arrow- to adjust.
- After adjusting the hood the catch -1- can be reinstalled and adjusted. Refer to ⇒ P1.14.2 in, Adjusting", page 61.
- The hood in the front area can be adjusted to the height of the fenders using the latch -3-. Refer to ⇒ A1.14.1 djusting", page 60

### 1.14.1 Latch, Adjusting



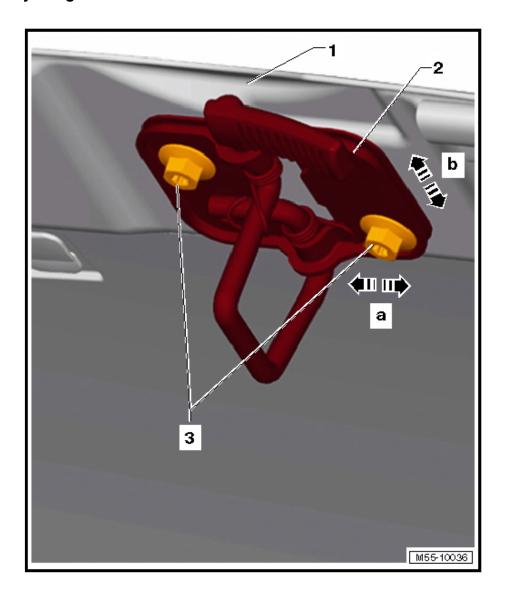
# Perform the Following:

- Remove the radiator grille. Refer to ⇒ G3.2 rille, Removing and Installing", page 317.
- If the bolts -2- are loosened, the latch -1- can be adjusted from side to side in direction of -a arrows- and in height in

direction of -b arrows-. Refer to  $\Rightarrow$  Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Front.

Bolt tightening specification -2-: 12 Nm.

### 1.14.2 Striker Pin, Adjusting



# Perform the Following:

- Loosen the bolts -3-.
- The hood catch -2- can now be adjusted in the oversized

Bolt tightening specification -3-: 10 Nm

### 2 Rear Lid

- ⇒ 2.1 , page 62
- ⇒ -2.2 Rear Lid", page 62
- ⇒ L2.3 id, Removing and Installing", page 64
- ⇒ -2.4 Gas-Filled Strut", page 65
- ⇒ S2.5 trut, Removing and Installing", page 66
- ⇒ S2.6 trut, Venting", page 68
- ⇒ -2.7 Rear Lid Hinge", page 69
- ⇒ L2.8 id Hinge, Removing and Installing", page 70
- ⇒ C2.9 over, Removing and Installing", page 72
- ⇒ R2.10 emoving and Installing", page 74
- ⇒ L2.11 id, Adjusting", page 75
- ⇒ R2.12 ear Lid Handle Unlock Switch E234, Removing and Installing", page 76
- ⇒ R2.13 emoving and Installing", page 77
- ⇒ L2.14 id Seal", page 79
- ⇒ L2.15 id Seal, Removing and Installing", page 80
- ⇒ P2.16 late Holder", page 81

### 2.1 **Tools**

# Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm -VAG1331-
- ♦ Gauge Gap Adjustment -3371-

### 2.2 Overview - Rear Lid

### 1 - Rear Lid

- Removing and installing. Refer to ⇒ L2.3 id, Removing and Installing", page 64
- $\square$  Refer to  $\Rightarrow$  L2.11 id, Adjusting", page 75 for adjusting.

# 2 - Wiring Harness

# 3 - Adjusting Buffer

- □ Left and right
- $\square$  Refer to  $\Rightarrow$  L2.11 id, Adjusting", page 75 for adjusting.

### 4 - Latch

- □ Removing and installing. Refer to ⇒ R2.13 emoving and Installing", page 77
- ☐ With emergency release cable. Refer to ⇒ R2.13 emoving and Installing", page 77

# 5 - Hinge

□ Removing and installing. Refer to ⇒ L2.8 id Hinge, Removing and Installing", page 70

### 6 - Gas-Filled Strut

- □ Removing and installing. Refer to ⇒ S2.5 trut, Removing and Installing", page <u>66</u> .
- ☐ Venting. Refer to ⇒ S2.6 trut, Venting", page 68.

# 7 - Striker

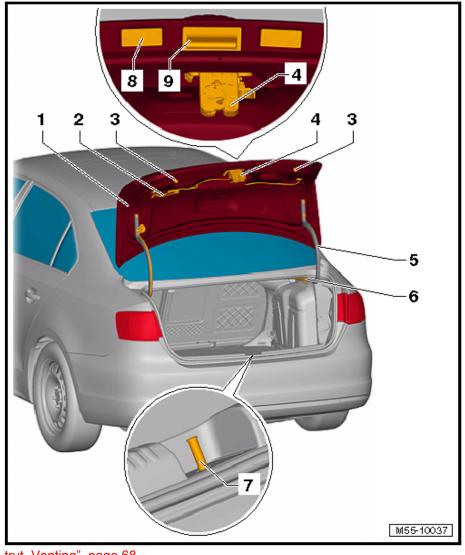
- ☐ Removing and installing. Refer to ⇒ R2.10 emoving and Installing", page 74.
- $\square$  Refer to  $\Rightarrow$  A2.11.1 djusting", page 76 for adjusting.
- □ Allocation. Refer to the Parts Catalog.

# 8 - License Plate Lamp

☐ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94; License Plate Lamp; License Plate Lamp, Removing and Installing.

# 9 - Rear Lid Release Button

☐ Removing and installing. Refer to ⇒ R2.12 ear Lid Handle Unlock Switch E234, Removing and Installing", page 76



### 2.3 Rear Lid, Removing and Installing

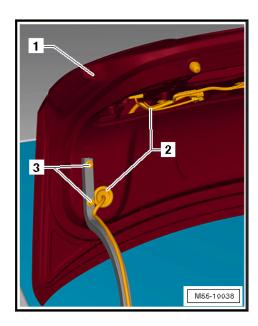
⇒ 2.3.1 , page 64

⇒ 2.3.2 , page 64

### 2.3.1 Removing

# Perform the Following:

- Remove the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing.
- If equipped, remove the left and right hinge cover. Refer to ≥ C2.9 over, Removing and Installing", page 72.
- Disconnect the connectors from any electrical components.
- Remove the wires -2- with the rubber grommet out of the rear lid -1-.



Loosen, but do not remove, the bolts -3- on the left and right hinges.

A second technician is required for the rest of the removal procedure.

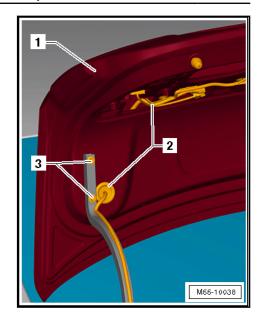
Remove the bolts -3- and the rear lid -1-.

### 2.3.2 Installing

# Perform the Following:

Install the rear lid -1- in reverse order of removal.





Bolt -3- tightening specification: 9 Nm

- Adjust the rear lid. Refer to ⇒ L2.11 id, Adjusting", page <u>75</u>
- Perform a function test on the unlocking components before closing the rear lid.

#### Overview - Gas-Filled Strut 2.4

#### 1 - Gas-Filled Strut

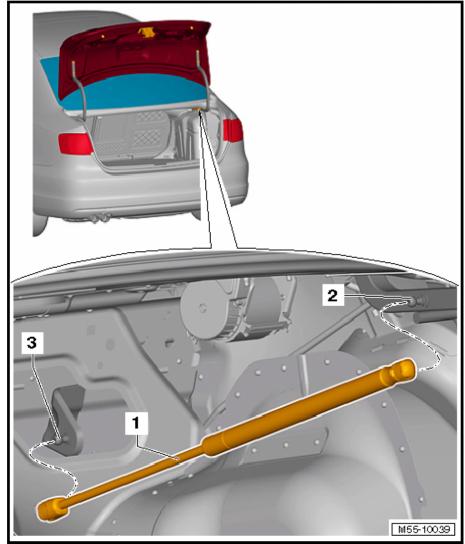
- Removing and installing. Refer to ⇒ S2.5 trut, Removing and Installing", page <u>66</u>
- □ Venting. Refer to ⇒ S2.6 trut, Venting", <u>page 68</u> .

#### 2 - Ball Stud

- Only on the right hinge
- Cannot be removed from the hinge

#### 3 - Retaining Bracket with Ball Stud

- On the rear panel
- Cannot be removed from the rear panel



#### Gas-Filled Strut, Removing and Instal-2.5 ling

⇒ 2.5.1 , page 66

⇒ 2.5.2 , page 68

#### 2.5.1 Removing



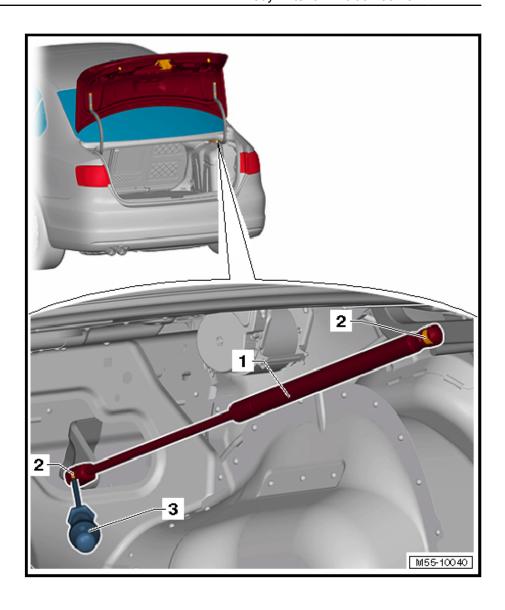
Note

Support the rear lid if it is necessary to remove the gas-filled strut.



### **WARNING**

Be careful when reusing the gas strut. Do not pry the spring clip completely out of the ball socket or the spring clip will be damaged. The gas-filled strut will spring out of the mount, resulting in damage or injury to the technician.



## Perform the Following:

- Open the rear lid and support it.
- Insert a small screwdriver -3- under the spring clips -2-.
- Lift the spring clips -2- just far enough so it is possible to slide them over the ball sockets.
- Remove the gas-filled strut -1- from the ball stud.

Slide the spring clips -2- back on immediately after removing the gas-filled strut.

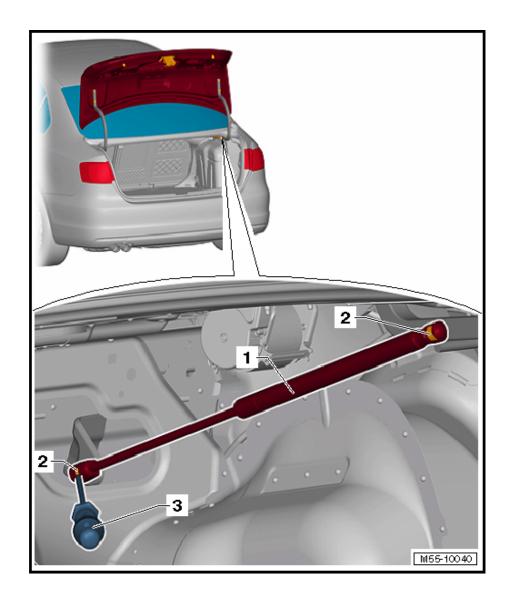


### **WARNING**

Be careful when reusing the gas strut. Do not pry the spring clip completely out of the ball socket or the spring clip will be damaged. The gas-filled strut will spring out of the mount, resulting in damage or injury to the technician.

Release the pressure from gas-filled strut. Refer to ≥ S2.6 trut, Venting", page 68

#### Installing 2.5.2



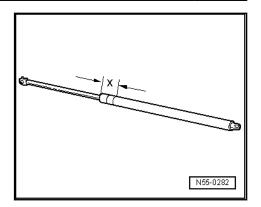
## Perform the Following:

- The spring clips -2- are pushed over the ball socket in the gas-filled strut -1-.
- Push the gas-filled strut ball socket -1- onto the ball stud until the ball socket clicks into place on the ball stud.

#### Gas-Filled Strut, Venting 2.6

- Clamp the gas-filled strut in area -x- = 50 mm into the vise.







### **WARNING**

Only clamp the gas strut in area -x-. Otherwise, an accident may occur.

Cut open the cylinder of the gas-filled strut within the first third of the total cylinder length, using the piston rod end of the cylinder as a reference point.



### Note

- ♦ Wear protective eyewear when sawing.
- Cover the area of the saw cut with a cleaning cloth.
- ♦ Dispose of the oil and cleaning cloths properly.

#### Overview - Rear Lid Hinge 2.7

#### 1 - Rear Lid

- □ Removing and installing. Refer to ⇒ L2.3 id, Removing and Installing", page 64.
- □ Refer to  $\Rightarrow$  L2.11 id, Adjusting", page 75 for adjusting.

#### 2 - Bolt

- ☐ Tightening specification: 9 Nm
- ☐ Quantity: 2 per hinge

### 3 - Hinge

- □ Removing and installing. Refer to ⇒ L2.8 id Hinge, Removing and Installing", page 70
- Removing and installing the hinge cover. Refer to ⇒ C2.9 over, Removing and Installing", page 72

### 4 - Gas-Filled Strut

- ☐ Removing and installing. Refer to ⇒ S2.5 trut, Removing and Installing", page
- □ Venting. Refer to ⇒ S2.6 trut, Venting", page 68.

## 5 - Wire

☐ Clipped to the hinge

### 6 - Bolt

- ☐ Tightening specification: 9 Nm
- ☐ Quantity: 4 on each hinge

### 7 - Spring

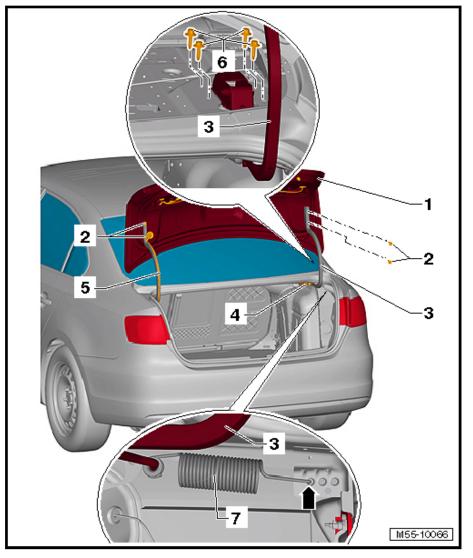
- □ Left and right
- ☐ Engaged in the left hole -arrow-

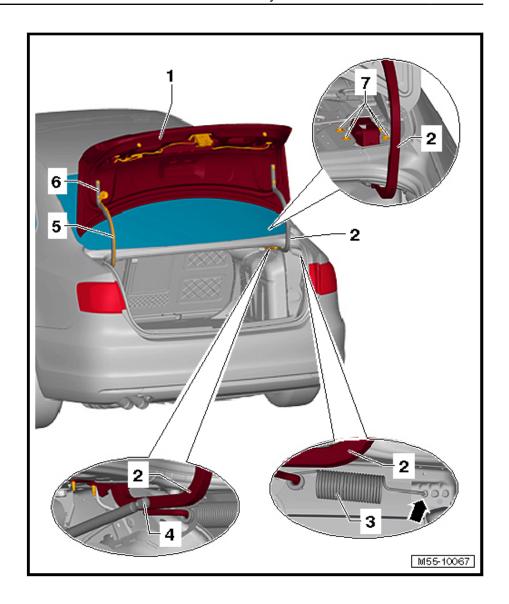
#### 2.8 Rear Lid Hinge, Removing and Installing

⇒ 2.8.1 , page 70

⇒ 2.8.2 , page 71

#### 2.8.1 Removing





#### Perform the Following:

Remove the rear lid -1-. Refer to ⇒ L2.3 id, Removing and Installing", page 64

If removing the left hinge -6-:

- Remove the wire -5- from the left hinge -6-.

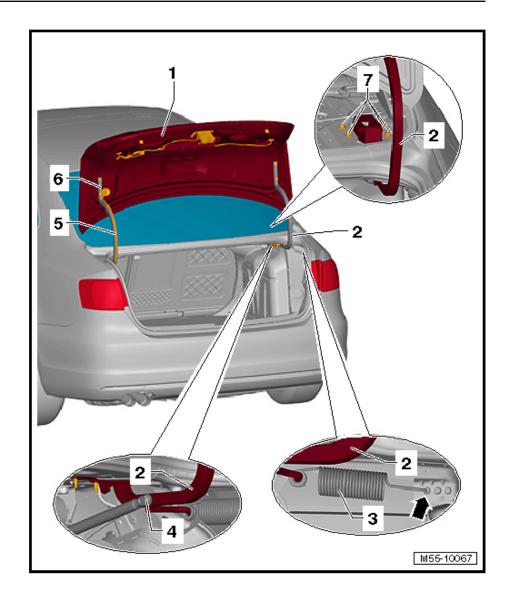
If removing the right hinge -2-:

Remove the gas-filled strut -4- from the ball stud on the right hinge -2-. Refer to ⇒ S2.5 trut, Removing and Installing", <u>page 66</u> .

Continuation for both hinges:

- Disengage the spring -3- in direction of -arrow- and remove it from the hinge.
- Remove the rear shelf. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels; Rear Shelf, Removing and Installing.
- Remove the bolts -7- and the left hinge -2- and the right hinge -6-.

#### 2.8.2 Installing



### Perform the Following:

Install in reverse order of removal.

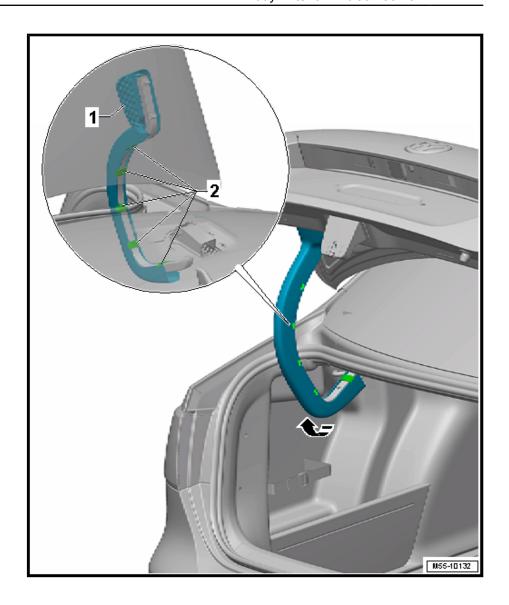
Bolt tightening specification -7-: 9 Nm

- Adjust the rear lid. Refer to ⇒ L2.11 id, Adjusting", page <u>75</u> .
- Perform a function test on the unlocking components before closing the rear lid.

#### Hinge Cover, Removing and Installing 2.9



The following describes removing and installing the left hinge cover only. Removing and installing the right cover is identical.



## Removing

- If equipped, remove the left and right cover -1- from the hinge.
- To do this release the locking mechanism -2- on the cover
- Remove the cover -1- in the direction of the -arrow- from the hinge.

## Installing

Install in reverse order of removal.

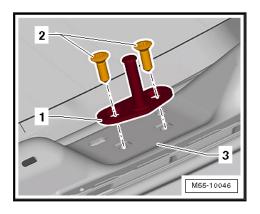
#### Striker, Removing and Installing 2.10

⇒ 2.10.1 , page 74

⇒ 2.10.2 , page 74

#### 2.10.1 Removing

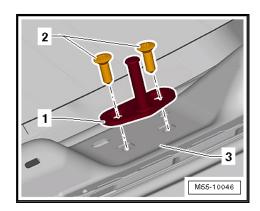
Perform the Following:



- Remove the cover for the striker inside the lock carrier cov-
- Remove the bolts -2- and remove the striker -1- from the lock carrier -3-.

#### 2.10.2 Installing

Perform the Following:



- Install the striker -1- on the lock carrier -3- with the bolts -2-.
- Tightening specification for the bolts -2-: 18 Nm
- Adjust the striker. Refer to ⇒ A2.11.1 djusting", page 76.
- Install the cover for the striker inside the lock carrier cover.

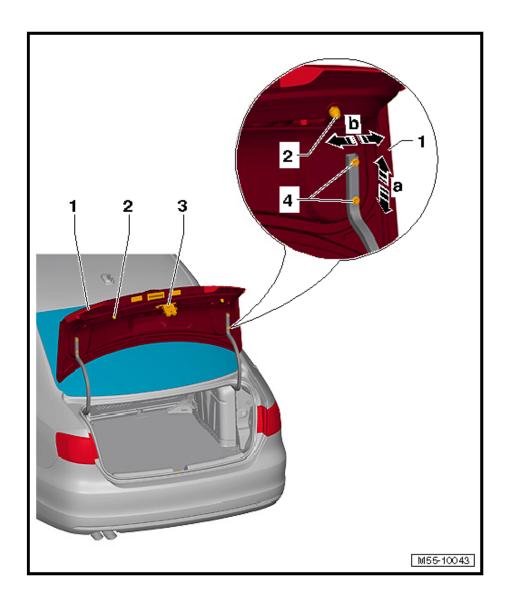
#### Rear Lid, Adjusting 2.11

## ⇒ A2.11.1 djusting", page 76



#### Note

- The vehicle must be on all four wheels when adjusting the rear lid.
- The latch -3- is bolted directly to the rear lid -1-. It does not have any oblong holes so it cannot be adjusted.
- The left and right adjusting buffers -2- are not meant for adjusting. Their function is to stabilize and to cushion the rear lid -1-.
- The rear lid is properly adjusted when there is an overall even gap dimension when closed, it is not too far inward or outward and contours align.
- The rear lid must engage in the striker without great force.



### Perform the Following:

To adjust or check the gap dimensions, use the -3371-. Refer to  $\Rightarrow$  Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body, Rear.

- If equipped, remove the left and right hinge cover. Refer to ⇒ C2.9 over, Removing and Installing", page 72
- Loosen the bolts -4- and adjust the rear lid -1- in the oversized holes on the hinge in direction of -arrows a and b-.

Bolt tightening specification -4-: 9 Nm

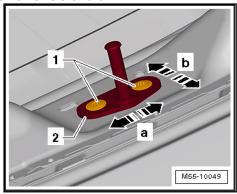
- After adjusting, apply a corrosion protection to the hinge and bolts.
- Adjust the adjusting buffer -2- by turning it.
- Adjust the rear lid -1- on the striker. Refer to ⇒ A2.11.1 djusting", page 76.

#### 2.11.1 Striker, Adjusting



#### Note

Loosen the bolts -1- and move the striker -2- inside the oversized holes in direction of -arrows a and b-.



Adjust the striker -2- so that the recess for the rear lid lock engages with the center of the striker -2-.

#### Perform the Following:

- Remove the cover for the striker inside the lock carrier cover.
- Loosen the bolts -1-.
- Move the catch -2- into the upper position and tighten the bolts -1-.
- Lock the rear lid and check the adjustment.

Tightening specification for the bolts -1-: 18 Nm

#### 2.12 Rear Lid Handle Unlock Switch -E234-, Removing and Installing

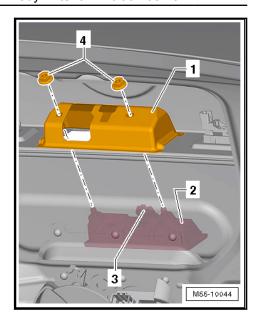
⇒ 2.12.1, page 76

⇒ 2.12.2 , page 77

#### 2.12.1 Removing

### Perform the Following:

- Remove the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing.
- Disconnect the connector -3- from the button -2-.



- Remove the nuts -4- from the threaded pins on the Release Button in Rear Lid Handle -E234- and remove the cover -1-.
- Remove the button -2- from the rear lid.

In case of an electrical malfunction, the rear lid can be opened using the latch emergency release. Refer to ⇒ R2.13 emoving and Installing", page 77. The emergency release is reached through an opening in the rear lid trim.

#### 2.12.2 Installing

### Perform the Following:

Install in reverse order of removal.

Nut tightening specification: 6 Nm

Perform a function test on the unlocking components before closing the rear lid.

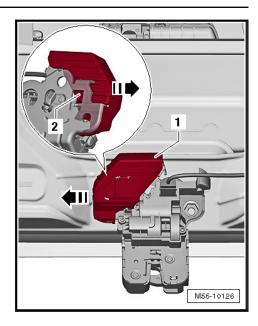
#### Latch, Removing and Installing 2.13

⇒ 2.13.1 , page 77

⇒ 2.13.2 , page 78

#### 2.13.1 Removing

- Remove the cap -1- in the direction of the arrow, if equipped.

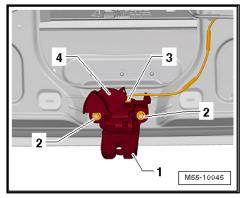


Release the tab -2- to do so.



### Note

If the rear lid does not open, use the emergency release -4inside the rear lid trim panel to open it manually. Refer to the Owner's Manual.



The emergency release -4- is only installed in certain markets.

#### Perform the Following:

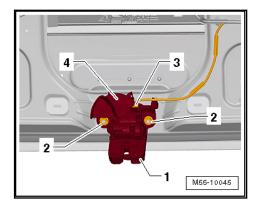
- Remove the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing.
- Disconnect the connector -3- from the latch -1-.
- Remove the nuts -2- and the rear lid latch -1-.

#### 2.13.2 Installing

### Perform the Following:

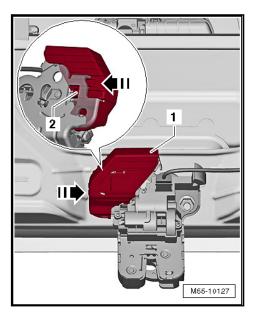
- Install the rear lid latch -1- and tighten the nuts -2-.





Nut tightening specification -2-: 23 Nm

- Connect the connector -3- to the latch -1-.
- Remove the cap -1- in the direction of the arrow, if equipped.



- Release the tab -2- to do so.
- Install the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing.
- Perform a function test on the unlocking components before closing the rear lid.

#### 2.14 Rear Lid Seal

The seal on the rear lid is equipped at the factory with a seal-ant, applied to body flange and then rolled on.

## Jetta 2011 ➤, Jetta 2013 ➤ Body Exterior - Edition 05.2021



### Note

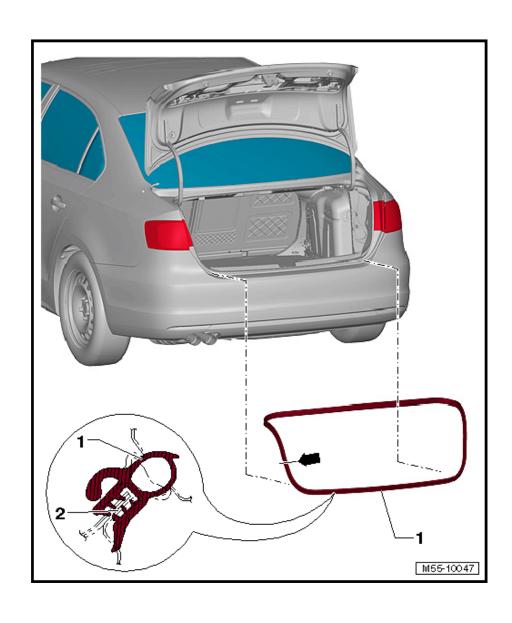
- When the seal is removed, the sealant spreads on the inner side of the seal and the sides bend up slightly. If the seal is being installed again, the sealing performance and proper seating are no longer guaranteed.
- ♦ For this reason, every seal that has been removed completely must be replaced with a so-called "hammer-stroke
- ♦ For partially removed seals, press the seal flanks together before installing.

#### Rear Lid Seal, Removing and Installing 2.15

⇒ 2.15.1 , page 80

⇒ 2.15.2 , page 81

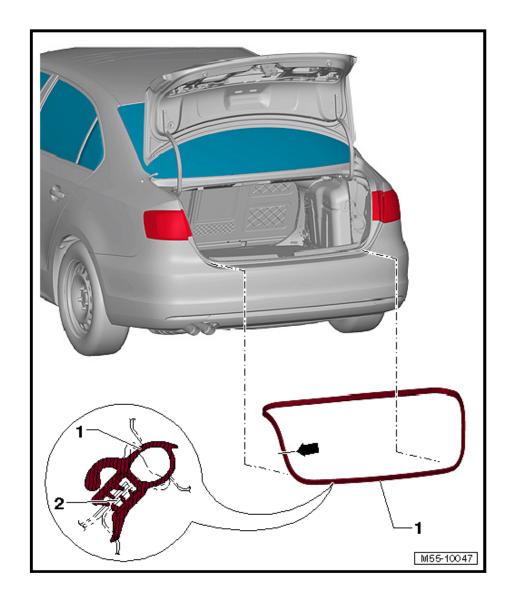
#### 2.15.1 Removing



### Perform the Following:

- Remove the rear lid seal -1- from the body flange -2-.

#### 2.15.2 Installing



## Perform the Following:

- Align the rear lid seal -1- with the vulcanized point -arrow- on the left tail lamp.
- Press the seal -1- onto the body flange -2- evenly.

#### 2.16 License Plate Holder



## Note

- The license plate holder is not installed on all models for all markets.
- The license plate holder can have different sizes depending on the market.

## 1 - Pop Rivet Nut

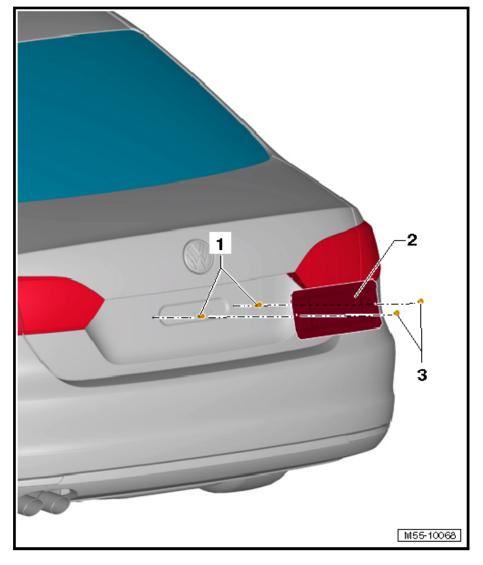
☐ Quantity: 2

## 2 - License Plate Holder

☐ Allocation. Refer to the Parts Catalog.

#### 3 - Screw

- ☐ Tightening specification: 4 Nm.
- Quantity: 2



#### 3 **Fuel Filler Door Unit**

- ⇒ 3.1 , page 83
- ⇒ -3.2 Fuel Filler Door Unit", page 83
- ⇒ F3.3 iller Door Unit, Removing and Installing", page 84
- ⇒ F3.4 uel Filler Door Unlock Motor V155, Removing and Installing", page 86

#### 3.1 **Tools**

Special tools and workshop equipment required

- ◆ Trim Removal Wedge -3409-
- ♦ Wrench Driver -T10072-

#### 3.2 Overview - Fuel Filler Door Unit

#### 1 - Connector

□ For the Fuel Filler Door Unlock Motor -V155-

#### 2 - Fuel Filler Door Unlock Motor -V155-

□ Removing and installing. Refer to ⇒ F3.4 uel Filler Door Unlock Motor V155, Removing and Installing", page <u>86</u> .

## 3 - Fuel Filler Door Unit

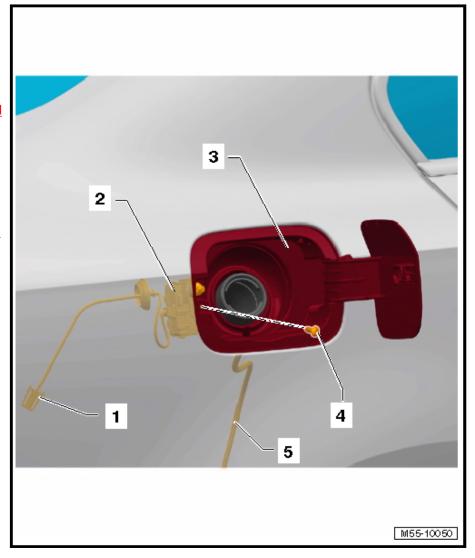
Removing and installing. Refer to ⇒ F3.3 ill-er Door Unit, Removing and Installing", page 84

## 4 - Screw

☐ Tightening specification: 1.5 Nm

### 5 - Water Drain Hose

□ Routed between the wheel housing and the wheel housing liner



## Fuel Filler Door Unit, Removing and In-3.3

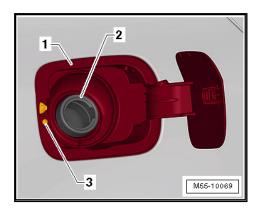
⇒ 3.3.1 , page 84

⇒ 3.3.2 , page 84

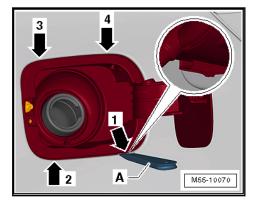
#### 3.3.1 Removing

#### Perform the Following:

- Remove the fuel filler cap.
- Roll the rubber grommet for the fuel filler door unit -1- off the fuel tank filler neck -2-.



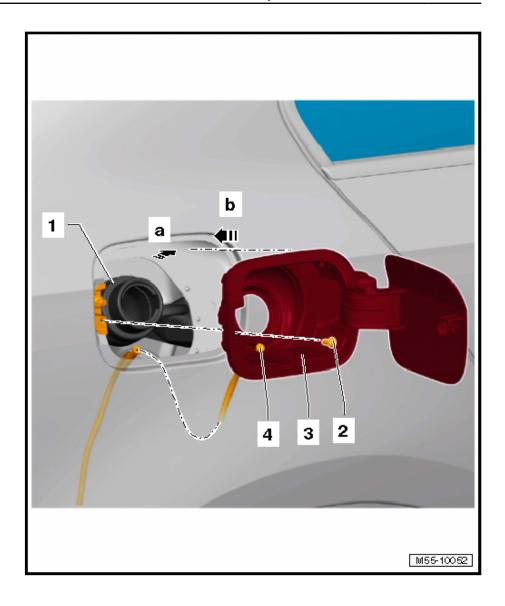
- Remove the bolt -3-.
- Release the retainer on bottom of the fuel filler door unit -arrow 1- on the right side using the -3409- -A-.



- Unlock the rest of the retainers using the -3409- in the specified sequence: -arrows 2 through 4-.
- Remove the fuel filler door unit and the water drain hose from the side panel.

#### 3.3.2 Installing





#### Perform the Following:

- Insert the water drain hose -4- through opening in tank flap unit -3- and pull it through until it stops.
- Insert the water drain hose -4- between the wheel housing and the wheel housing liner in the side panel.
- Pivot the fuel filler door unit -3- starting on the hinge side into the side panel in direction of -arrow a-.
- Push the fuel filler door unit into the side panel in direction of -arrow b-. Make sure the hooks latch properly into the side panel.
- Tighten the bolt -2-.

Screw tightening specification -2-: 1.5 Nm

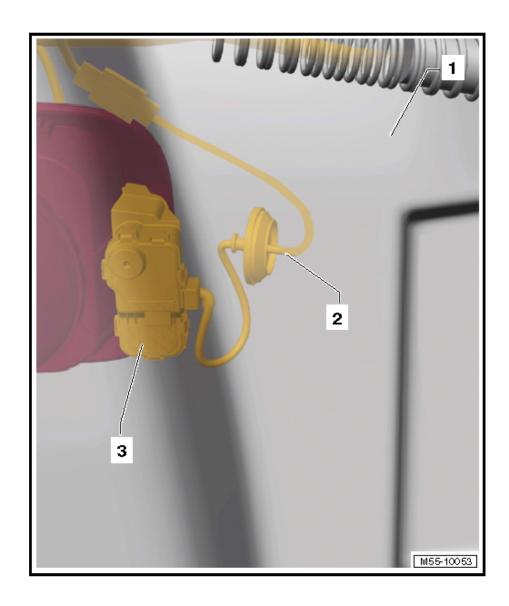
- Pull the rubber grommet -3- over the fuel tank filler neck -1-.
- Check correct function of unlocking components.

#### Fuel Filler Door Unlock Motor -V155-, 3.4 Removing and Installing

⇒ 3.4.1 , page 86

⇒ 3.4.2 , page 87

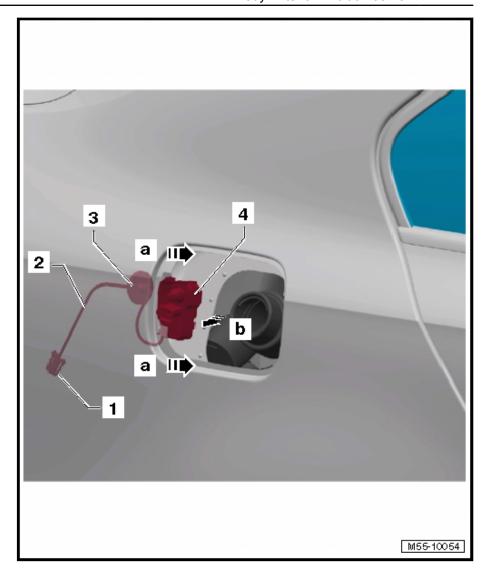
#### 3.4.1 Removing



## Perform the Following:

- Loosen the right luggage compartment trim panel -1- at the top until the connector -2- is accessible. Do not remove the luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Luggage Compartment Trim Panels.
- Disconnect the connector -2- from the Fuel Filler Door Unlock Motor -V155- -3-.





- Remove the fuel filler door unit. Refer to  $\Rightarrow$  F3.3 iller Door Unit, Removing and Installing", page 84
- Remove the rubber grommet -3- from the side panel and remove the wiring harness -2- and connector -1- from the side panel.
- Pull the Fuel Filler Door Unlock Motor -V155- -4- in the direction of the -arrow a- and remove it -arrow b-.

#### 3.4.2 Installing

### Perform the Following:

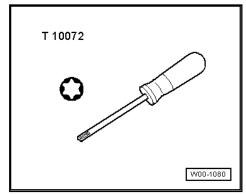
Install in reverse order of removal.

- Make sure the grommet and the connector are seated correctly.
- Install the fuel filler door unit. Refer to ⇒ F3.3 iller Door Unit, Removing and Installing", page 84.
- Attach the right luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Luggage Compartment Trim Panels.
- Perform a function test of all the unlocking components.

#### **Special Tools** 4

## Special tools and workshop equipment required

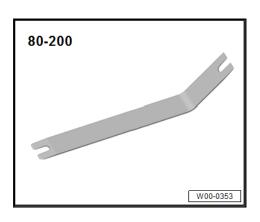
♦ Wrench - Driver -T10072-



Torque Wrench 1331 5-50Nm -VAG1331-



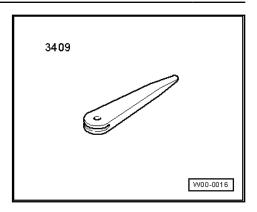
♦ Pry Lever -80-200-



♦ Gauge - Gap Adjustment -3371-



♦ Trim Removal Wedge -3409-



# Front Doors, Central Locking System

## **Front Door**

- ⇒ 1.1 , page 90
- ⇒ -1.2 Door Hinges", page 90
- ⇒ R1.3 emoving and Installing", page 92
- ⇒ a1.4 fter Replacing the A-Pillar", page 94
- ⇒ A1.5 djustment", page 96

#### 1.1 **Tools**

### Special tools and workshop equipment required

- ♦ Wrench Door Adjusting -3320-
- ◆ Door Adjusting Wrench Joint -3320/1-
- ♦ Wrench Door Adjusting Box Wrench -3320/2-
- ♦ Wrench Door Adjusting Box Wrench -3320/3-
- ◆ Cylinder Head Bolt Socket -3410-
- ♦ Gauge Gap Adjustment -3371-
- ◆ Trim Removal Wedge -3409-
- ◆ Torque Wrench 1331 5-50Nm -VAG1331-

#### 1.2 Overview - Door Hinges



- The illustration shows the right side. The left side is identical.
- Always replace the door hinge bolts if they have been loosened.

#### 1 - Door

- □ Removing and installing. Refer to ⇒ R1.3 emoving and Installing", page 92.
- Refer to ⇒ A1.5 djustment", page 96 for adjusting.

### 2 - Bolt

- ☐ Tightening specification: 40 Nm
- Always replace. It is permitted to loosen the bolt just one time when adjusting the door.

### 3 - Door Hinge

- ☐ The hinge has two sections.
- ☐ A bolt -4- attaches the upper section to the lower section.

#### 4 - Bolt

- ☐ Tightening specification: 23 Nm.
- Attaches the upper section -3- to the lower section -7-

#### 5 - Cap

☐ Place over the bolt -4-

#### 6 - Bolt

- ☐ Tightening specification: 40 Nm
- ☐ Always replace. It is permitted to loosen the

bolt just one time when adjusting the door.

- ☐ Installed from the vehicle interior
- □ The A-pillar lower trim must be removed for removing and installing. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.
- □ Follow the tightening specifications after replacing the A-pillar. Refer to  $\Rightarrow$  a1.4 fter Replacing the A-Pillar", page 94.

## 7 - Door Hinge

- ☐ The hinge has two sections.
- ☐ A bolt -4- attaches the lower section to the upper section.

### 8 - Bolt

- ☐ Tightening specification: 40 Nm
- ☐ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- $\Box$  Follow the tightening specifications after replacing the A-pillar. Refer to  $\Rightarrow$  a1.4 fter Replacing the A-Pillar", page 94.

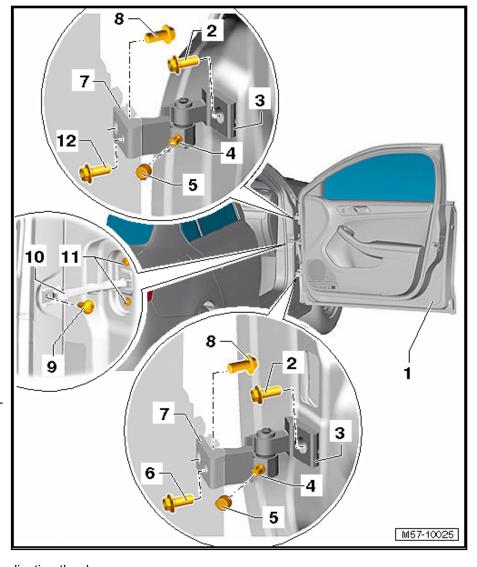
#### 9 - Bolt

☐ Tightening specification: 30 Nm

#### 10 - Door Strap

☐ Removing and installing. Refer to ⇒ S2.4 trap, Removing and Installing", page 103.

### 11 - Bolt





Jetta 2011 ➤, Jetta 2013 ➤ Body Exterior - Edition 05.2021

	Tightening	specification:	9	Nm
--	------------	----------------	---	----

Quantity: 2

## 12 - Bolt

☐ Tightening specification: 40 Nm

Always replace. It is permitted to loosen the bolt just one time when adjusting the door.

☐ Installed from the vehicle interior

☐ To remove and install, the instrument panel must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70; Instrument Panel; Instrument Panel, Removing and Installing.

☐ Follow the tightening specifications after replacing the A-pillar. Refer to ⇒ a1.4 fter Replacing the A-Pillar", page 94

#### Door, Removing and Installing 1.3



Note

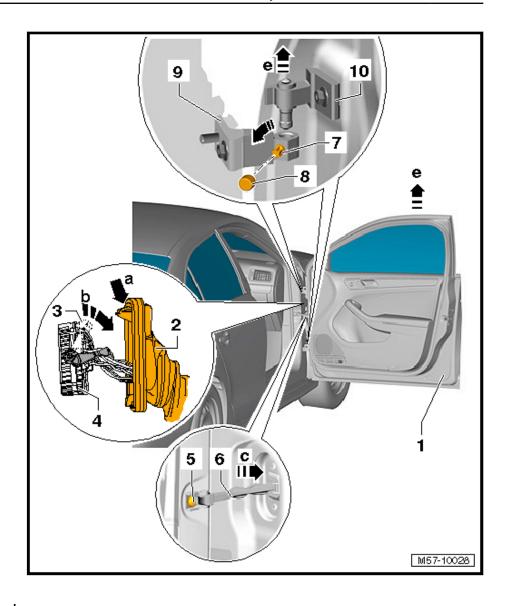
The following describes removing and installing the right door. Removing and installing the left door is identical.

⇒ 1.3.1 , page 92

⇒ 1.3.2 , page 93

#### 1.3.1 Removing

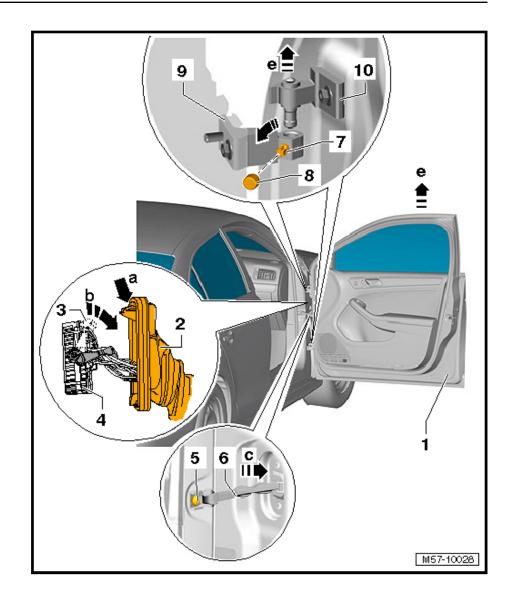




## Perform the Following Procedures:

- Disconnect the battery ground cable with the ignition turned on. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.
- Press on the catch -arrow a- and remove the boot -2- from the A-pillar.
- Swing the locking lever -3- downward -arrow b- and disconnect the connector -4- from connector station.
- Remove the caps -8- from the bolts -7-.
- Loosen the bolts -7- on the hinges -arrow d-.
- Remove the bolt -5- from the door strap -6-.
- Push the door strap -6- toward the inside -arrow c-.
- Lift the door -1- upward -arrow e- out of the hinges -9-.

## 1.3.2 Installing



#### Perform the Following Procedures:

Install in reverse order of removal and note the following:

 Connect the battery ground cable with the ignition switched on. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.

Bolt tightening specification -5-: 30 Nm

Bolt tightening specification -7-: 23 Nm

- Adjust the door. Refer to ⇒ A1.5 djustment", page 96.
- Make sure the front door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Center.

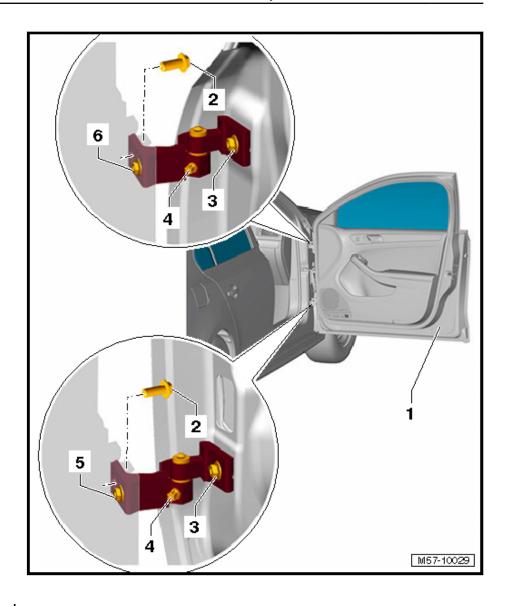
## 1.4 Installing after Replacing the A-Pillar



#### **WARNING**

If the A-pillar was replaced, then tighten the bolts on the A-pillar exactly as described.





## Perform the Following Procedures:

- The A-pillar was replaced.
- Always replace the bolts. It is permitted to loosen the bolt just one time when adjusting the door.

Install in reverse order of removal.

- Install the door -1- and tighten the bolts -2, 5 and 6- to 20 Nm and 90°.
- Connect the battery ground cable with the ignition switched on. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.
- Adjust the door. Refer to ⇒ A1.5 djustment", page 96.
- Make sure the front door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Center.

#### 1.5 **Door Adjustment**

⇒ A1.5.1 djusting Gap Dimension and Flush Dimension", page 96

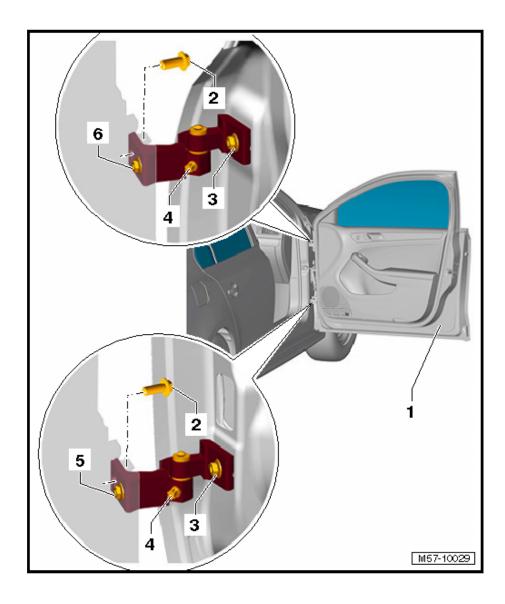
⇒ P1.5.2 in, Adjusting", page 97

#### Door, Adjusting Gap Dimension and Flush Dimension 1.5.1



## Note

- The vehicle must standing on all four wheels when adjusting the front door.
- The front door is properly adjusted when there is an overall even gap dimension when closed. It is not too far toward the inside or the outside and the contours align.
- Checking the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions.
- Perform corrosion protection measures on the hinges and the bolts after assembling or adjusting.



#### Perform the following:

#### Gap Dimensions, Adjusting

It is necessary to loosen the bolts -2, 5 and 6- on the A-pillar in order to adjust the gap dimensions correctly.

- To remove the bolt -5-, the A-pillar lower trim must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.
- To remove the bolt -6-, the instrument panel must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70; Instrument Panel; Instrument Panel, Removing and Installing.

#### Flush Dimension Adjustment

The bolts -3- must be loosened in order to adjust the flush dimensions correctly.

Use the -3320- with the respective bit for this.



#### Note

Other measures, such as aligning the door upward, do not work. Pressure later will cause the door to sag again.

Adjust the striker pin. Refer to ⇒ P1.5.2 in, Adjusting", page 97.

## 1.5.2 Striker Pin, Adjusting



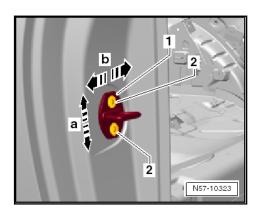
#### Note

- The following describes adjusting the right front door. Adjusting the left front door is identical.
- When closing, the door must lock completely without applying additional force and it must not have any play.
- By adjusting the catch, the door must not be pushed upward or downward.

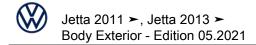
The alignment of the front door to the rear door can be adjusted using the striker pin (wind noises).

## Perform the Following:

Loosen the bolts -2- on the B-pillar and loosen the striker pin
 -1-.



 Adjust the door with the striker pin -1- so that the front door lines up with the rear door when it is closed (wind noises) in direction of -a arrows and b arrows-.





## Note

More force may be needed to move the striker pin -1- when the bolts -2- are loose.

- Tighten the bolts -2- on the striker pin -1-.

Bolt tightening specification -2-: 25 Nm

## 2 Door Components

- ⇒ 2.1 , page 99
- ⇒ -2.2 Front Door", page 99
- ⇒ C2.3 over, Removing and Installing", page 101
- ⇒ S2.4 trap, Removing and Installing", page 103
- ⇒ P2.5 in, Removing and Installing", page 105
- ⇒ -2.6 Door Handle and Door Lock", page 106
- ⇒ C2.7 ylinder Cap, Removing and Installing", page 108
- ⇒ C2.8 ylinder, Removing and Installing", page 109
- ⇒ w2.9 ithout Lock Cylinder, Removing and Installing", page 112
- ⇒ H2.10 andle, Removing and Installing", page 114
- ⇒ L2.11 ock, Removing and Installing", page 117
- ⇒ B2.12 racket, Removing and Installing", page 120
- ⇒ W2.14 indow Shaft Seal, Removing and Installing", page 125
- ⇒ D2.16 oor Seal, Removing and Installing", page 130
- ⇒ -2.17 Insulation", page 131

### 2.1 Tools

### Special tools and workshop equipment required

- ♦ Roller -3356-
- ◆ Trim Removal Wedge -3409-
- ◆ Cylinder Head Bolt Socket -3410-
- ◆ Torque Wrench 1331 5-50Nm -VAG1331-
- ♦ Wiring Harness Repair Set Hot Air Blower -VAS1978/14A-
- ◆ Adhesive Strip Remover -VAS6349-

### 2.2 Overview - Front Door

#### 1 - Door

- Removing and installing. Refer to = R1.3 emoving and Installing", page 92.
- □ Refer to ⇒ A1.5 djustment", page 96 for adjusting.

#### 2 - Cable

- From the mounting bracket -3- to the door lock -12-
- Secured to the outer door panel with adhesive tape

### 3 - Mounting Bracket

Removing and installing. Refer to B2.12 racket, Removing and Installing", page 120

#### 4 - Door Handle

Removing and installing. Refer to H2.10 andle, Removing and Installing", page 114

### 5 - Lock Cylinder

- Removing and installing. Refer to ⇒ C2.8 ylinder, Removing and Installing", page <u>109</u> .
- Not always installed on the front passenger door depending on the optional equipment

#### 6 - Backing Plate

#### 7 - Cap

- ☐ With lock cylinder, removing and installing. Refer to <u>⇒ C2.7 ylinder Cap, Removing and Installing"</u>, page 108.
- □ Without the lock cylinder, removing and installing. Refer to ⇒ w2.9 ithout Lock Cylinder, Removing and Installing", page 112

### 8 - Outer Window Shaft Seal

□ Removing and installing. Refer to ⇒ W2.14 indow Shaft Seal, Removing and Installing", page 125.

#### 9 - Retaining Bracket

☐ For attaching the door trim panel

#### 10 - Rivet

☐ For the retaining bracket -9-

### 11 - Bolt

- ☐ Tightening specification: 18 Nm.
- Quantity: 2

### 12 - Door Lock

□ Removing and installing. Refer to ⇒ L2.11 ock, Removing and Installing", page 117.

1	3	_	Cov	۵r
•	٠,٦	_	l aciv	

□ Removing and installing. Refer to ⇒ C2.3 over, Removing and Installing", page 101.

#### 14 - Outer Door Seal

□ Removing and installing. Refer to ⇒ D2.16 oor Seal, Removing and Installing", page 130.

## 15 - Speaker

☐ Riveted to the door

#### 16 - Bolt

- ☐ Tightening specification: 9 Nm
- Quantity: 2

#### 17 - Door Strap

☐ Removing and installing. Refer to ⇒ S2.4 trap, Removing and Installing", page 103.

#### 18 - Inner Window Shaft Seal

□ Removing and installing. Refer to ⇒ W2.13 indow Shaft Seal, Removing and Installing", page 122.

## 19 - Door Window

□ Removing and installing. Refer to ⇒ W2.3 indow, Removing and Installing", page 244.

## 2.3 Door Cover, Removing and Installing

⇒ 2.3.1 , page 101

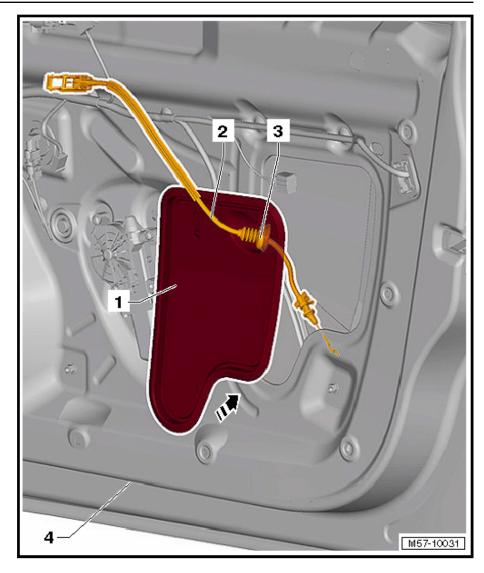
⇒ 2.3.2 , page 102

## 2.3.1 Removing



Note

The following describes removing and installing the right cover. Removing and installing the left cover is identical.



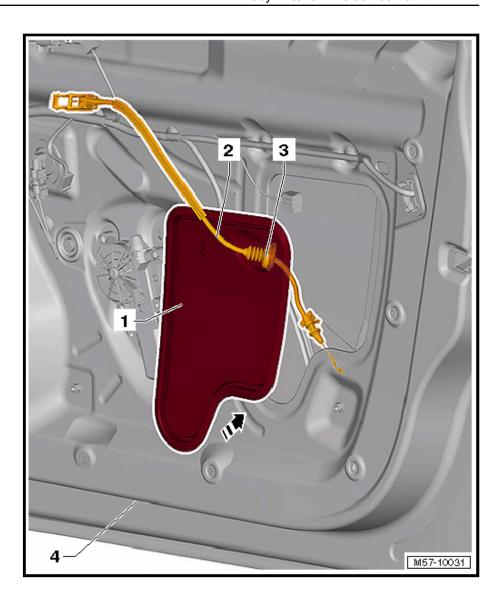
- Remove the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Lift the cover -1- at the bottom.
- Pull the cover -1- down and remove it from the door -4-.



## Note

Remove the cable -2- and the grommet -3- from the cover -1- and (if equipped) disconnect the connector in the grommet.

#### Installing 2.3.2



- Pull the cable -2- through the cover -1- and secure the grommet -3-.
- Insert the cover -1- upward in the door -4-.
- Install the cover -1- in the door in direction of -arrow-.
- If equipped, connect the connector at the grommet -3-.

## 2.4 Door Strap, Removing and Installing

⇒ 2.4.1 , page 103

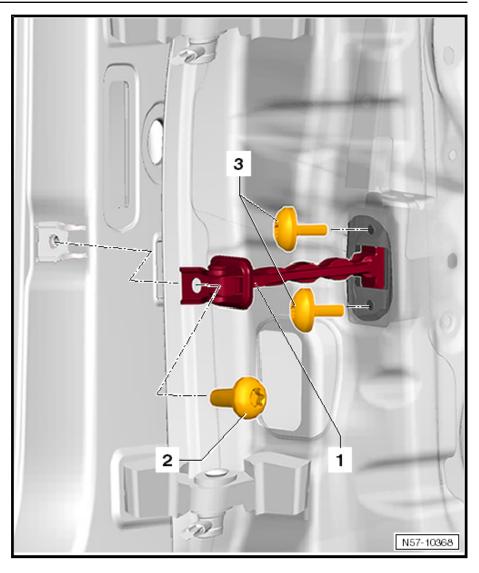
⇒ 2.4.2 , page 104

## 2.4.1 Removing



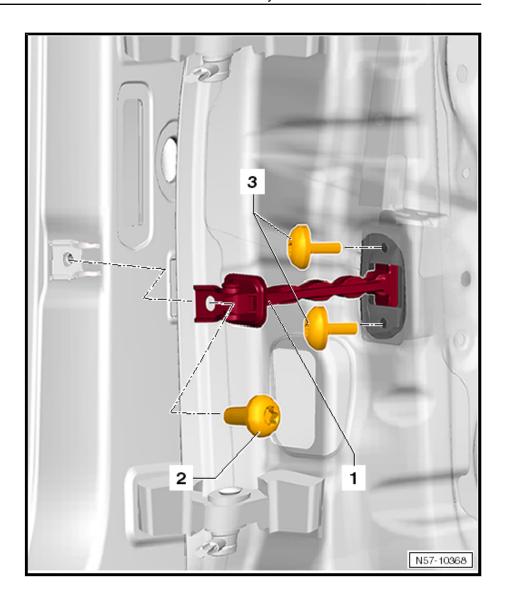
Note

The following describes removing and installing the right door strap. Removing and installing the left door strap is identical.



- Remove the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the riveted speaker.
- Remove the bolt -2- from the A-pillar.

#### 2.4.2 Installing



Install in reverse order of removal.

Tightening specification for the bolts -2-: 30 Nm

Tightening specification for the bolts -3-: 9 Nm

## 2.5 Striker Pin, Removing and Installing

⇒ 2.5.1 , page 105

⇒ 2.5.2 , page 106

## 2.5.1 Removing

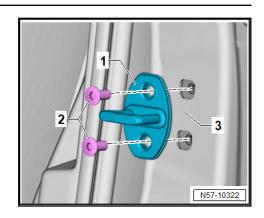


Note

The following describes the removal and installation of the right catch. Removing and installing the left striker pin is identical.

## Perform the Following:

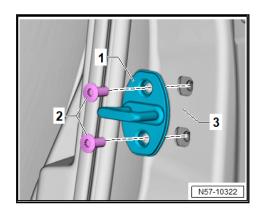
- Remove the bolts -2- and the catch -1-.



#### 2.5.2 Installing

## Perform the Following:

Position the striker pin -1- on the B-pillar -3- and tighten the bolts -2-.





## **WARNING**

A catch with a curve must be installed.

The curve faces the vehicle interior.

Bolt tightening specification -2-: 25 Nm

Adjust the catch. Refer to ⇒ P1.5.2 in, Adjusting", page 97.

#### 2.6 Overview - Door Handle and Door Lock



## Note

The illustration shows the left side. The right side is identical.

#### 1 - Door Lock

Removing and installing. Refer to ⇒
 L2.11 ock, Removing and Installing", page
 117

## 2 - Screw

- ☐ Tightening specification: 4 Nm.
- ☐ For the lock cylinder

## 3 - Mounting Bracket

Removing and installing. Refer to ⇒
 B2.12 racket, Removing and Installing",
 page 120 .

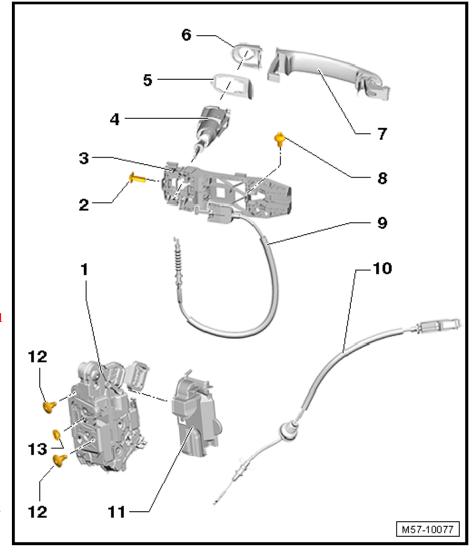
## 4 - Lock Cylinder

- Removing and installing. Refer to ⇒
   C2.8 ylinder, Removing and Installing", page
   109
- Not always installed on the front passenger door depending on the optional equipment

## 5 - Backing Plate

#### 6 - Cap

- With lock cylinder, removing and installing. Refer to ⇒ C2.7 ylinder Cap, Removing and Installing", page 108.
- Without the lock cylinder, removing and installing. Refer to ⇒ w2.9 ithout Lock Cylinder, Removing and Installing", page 112.



## 7 - Door Handle

Removing and installing. Refer to ⇒ H2.10 andle, Removing and Installing", page 114.

#### 8 - Screw

- ☐ Tightening specification: 1 Nm.
- Loosening this bolt loosens the mounting bracket from the door.

## 9 - Cable

- ☐ From the door lock -1- to the mounting bracket -3-
- ☐ Secured to the outer door panel with adhesive tape

## 10 - Cable

- ☐ From the interior door mechanism to the door lock -1-
- With a grommet for the pass through on the cover

#### 11 - Door Lock Cover

□ Retrofit if not installed

## 12 - Bolt

- ☐ Tightening specification: 18 Nm.
- ☐ Quantity: 2

13 - Cap

#### 2.7 Lock Cylinder Cap, Removing and Installing

⇒ 2.7.1 , page 108

⇒ 2.7.2 , page 108

#### 2.7.1 Removing

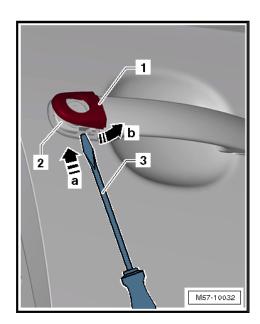


## Note

When removing the lock cylinder cap, do not turn the screwdriver and do not use prying motions.

## Perform the Following:

- Remove the door handle from the door.
- Gently push a small screwdriver -3- in direction of -arrow ainto the opening in the bottom of the lock cylinder cap -1-.



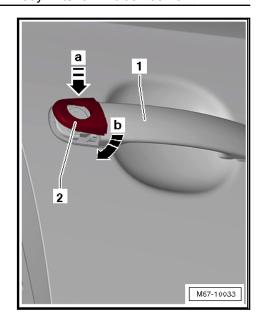
- Remove the lock cylinder cap -1- with the screwdriver, on the bottom gently from the door in direction of -arrow b-.
- Push the cap upward off the lock cylinder.

#### 2.7.2 Installing

## Perform the Following:

Remove the door handle -1- from the door.





- Place the lock cylinder cap -2- gently at an angle from above in direction of -arrow a- on the lock cylinder.
- Press the lock cylinder cap -2- on the door in direction of -arrow b- until cap engages with lock cylinder.

# 2.8 Lock Cylinder, Removing and Installing

⇒ 2.8.1 , page 109

⇒ 2.8.2 , page 110

## 2.8.1 Removing



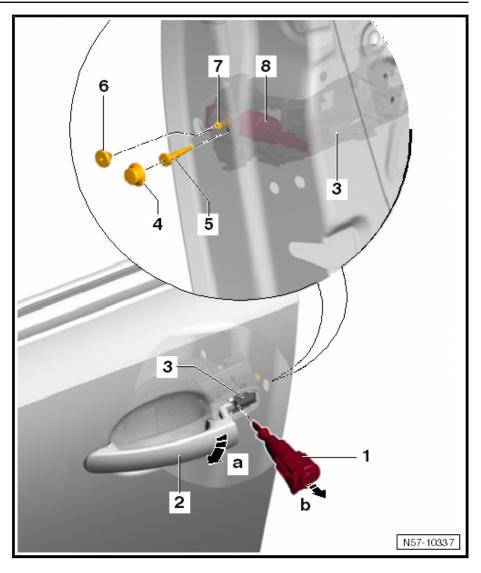
Note

The following describes the removal and installation of a left lock cylinder. Removing and installing a right lock cylinder is identical.



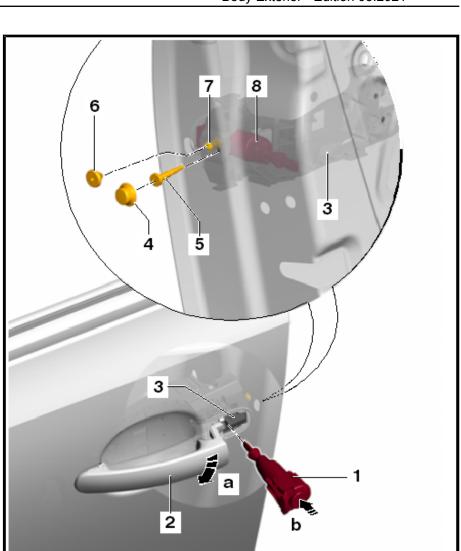
Note

The covers -4 and 6- illustrated here may have different shapes.



- Lock cylinder cap is removed. Refer to ⇒ C2.7 ylinder Cap, Removing and Installing", page 108
- Remove the covers -4 and 6-.
- Remove the bolt -5-.
- Remove the bolt -7- to the stop to free the lock cylinder bolt.
- Remove the door handle -2- from the door -8- in direction of -arrow a-.
- Remove the lock cylinder housing -1- from the mounting bracket -3- at a right angle in direction of -arrow b- to the door.

#### 2.8.2 Installing



- Remove the door handle -2- from the door -8- -arrow a-.
- Install the lock cylinder housing -1- into the mounting bracket
   -3- at a right angle in direction of -arrow b-.
- Install the bolts -5 and 7- into the mounting bracket.

Bolt tightening specification -5 and 7-: 4 Nm



## Note

The lock cylinder housing must be pressed onto the outer door panel while installing.

Install in reverse order of removal.

• Always perform a function test with the door open.

N57-10338

## Cap without Lock Cylinder, Removing 2.9 and Installing

⇒ 2.9.1 , page 112

⇒ 2.9.2 , page 112

⇒ 2.9.3 , page 113

#### 2.9.1 **Tools**

## Special tools and workshop equipment required

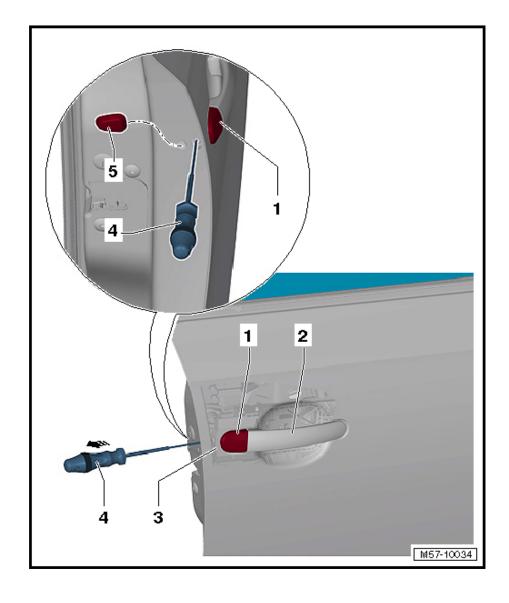
◆ Lock Cylinder Housing Assembly Tool -T10389-

#### 2.9.2 Removing



Note

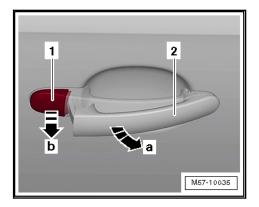
The cover -2- illustrated here may have a different shape.



## Perform the Following:

Remove the cover -2-.

- Install the -T10389- into the door behind the hooks -3- for the cap -1-.
- Pull the -T10389- toward the rear -arrow- until the hook is released.
- Remove the door handle -2- from the door in the direction of the -arrow a-.

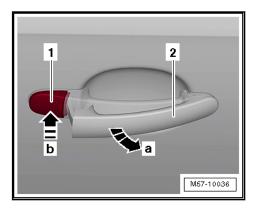


 Remove the cap -1- at a right angle -arrow b- from the mounting bracket.

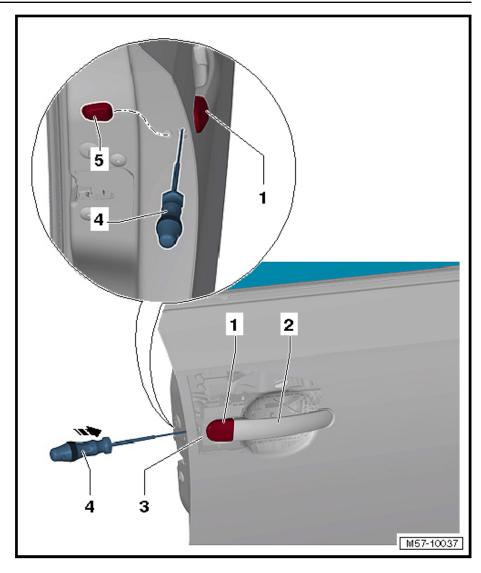
## 2.9.3 Installing

## Perform the Following:

 Remove the door handle -2- from the door in the direction of the -arrow a-.



 Install the cap -1- at a right angle into the mounting bracket -arrow b-.



- Insert a screwdriver -4- on the hooks -3- in the mounting bracket.
- Push the cap -1- onto the door.
- Push the screwdriver in just far enough -arrow- to release the hook.
- Install the cover -5-.

#### 2.10 Door Handle, Removing and Installing

⇒ 2.10.1 , page 114

⇒ 2.10.2 , page 115

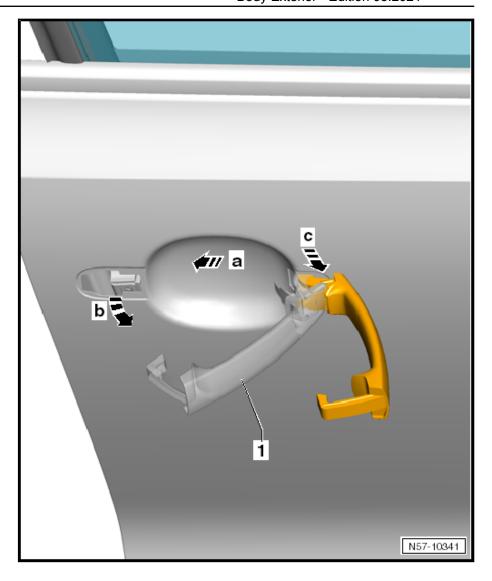
#### Removing 2.10.1



Note

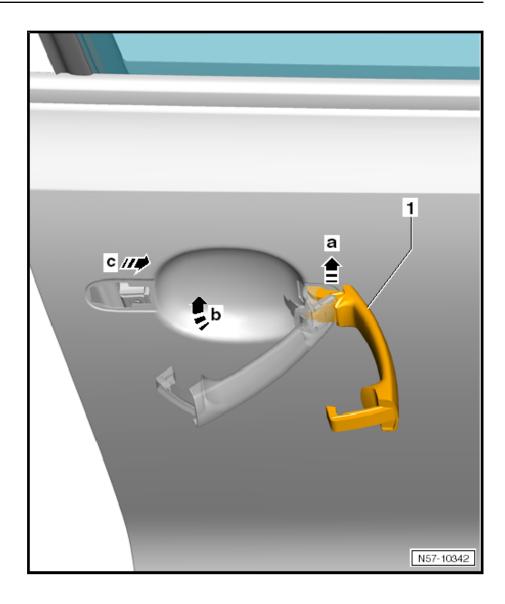
The following describes the removal and installation of the right door handle. Removing and installing the left door handle is identical.





- Remove the lock cylinder (refer to ⇒ C2.8 ylinder, Removing and Installing", page 109 ) or the cap (refer to ⇒ w2.9 ithout Lock Cylinder, Removing and Installing", page 112 ).
- Pull the door handle -1- slightly to the rear -arrow a- and out of the mounting bracket mount.
- Pivot the door handle in the direction of the -arrow b-.
- Remove the door handle at a right angle -arrow c- from the mounting bracket.
- If equipped, disconnect the connector from the door handle
   -1-.

# 2.10.2 Installing



- If equipped, connect the connector to the door handle -1-.
- Insert the door handle -1- into the mounting bracket at a right angle -arrow a-.
- Install the door handle -1- into the door -arrow b-.
- Push the door handle toward the front -arrow c- into the mount in the mounting bracket.
- Install the lock cylinder (refer to ⇒ C2.8 ylinder, Removing and Installing", page 109 ) or cap (refer to ⇒ w2.9 ithout Lock Cylinder, Removing and Installing", page 112 ).
- Always perform a function test with the door open.

## 2.11 Door Lock, Removing and Installing

⇒ 2.11.1 , page 117

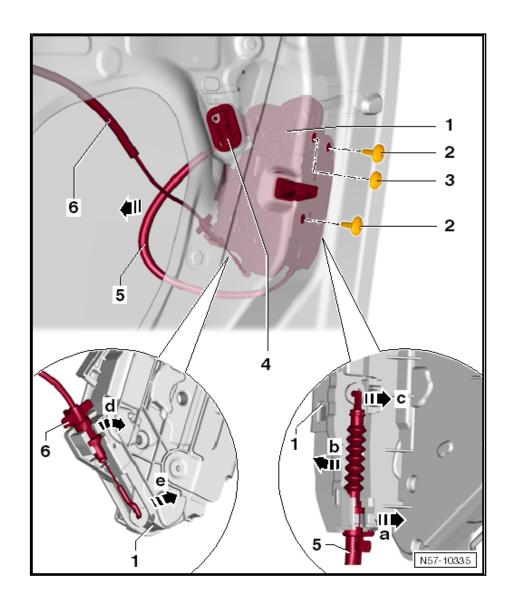
⇒ 2.11.2 , page 118

## 2.11.1 Removing



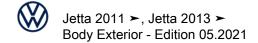
Note

The following describes removing and installing the right door lock. Removing and installing the left door lock is identical.



## Perform the Following:

- Remove the cover. Refer to ⇒ C2.3 over, Removing and Installing", page 101.
- Remove the cap -3-.
- Disconnect the connector -4-.
- If equipped in the door, remove the lock cylinder. Refer to ⇒
   C2.8 ylinder, Removing and Installing", page 109



- Remove the rear nuts for the window regulator.
- For later removal of the door lock push the threaded pin from the window regulator in the door.
- Remove the bolts -2-.
- Remove the door lock -1- from the door.



#### Note

If it is necessary for the following work steps, loosen the cables.

#### Cable to Mounting Bracket, Loosening

Remove the cap -item 11- ⇒ Item 11 (page 107) (if equipped) from the door lock.

The cable -5- can be secured to the outer door panel with adhesive tape.

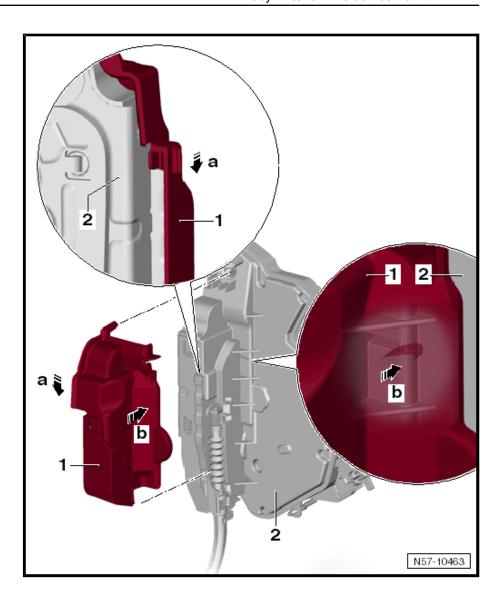
- Turn the cable -5- 90° and remove it -arrow a- out of the bracket.
- Move the cable -arrow b- until it can be guided out of the eye in the door lock -1- -arrow c-.

## Cable to Interior Door Mechanism, Loosening

- Turn the cable -6- 90° and remove it from the mount.
- Move the cable -arrow d- until it can be guided out of the eye in the door lock -1- -arrow e-.

#### 2.11.2 Installing

#### Perform the Following:

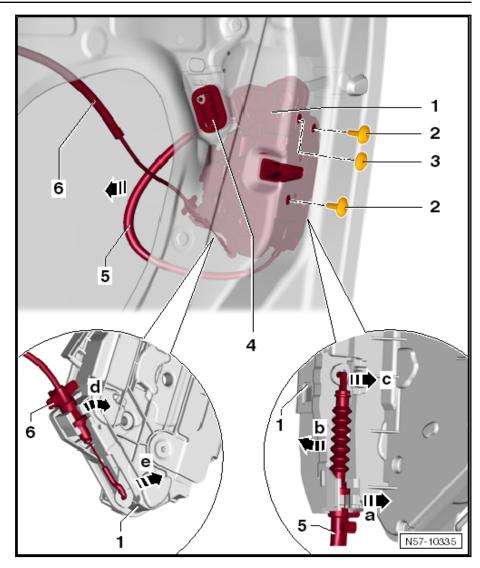




## Note

Install the cap before installing the door lock.

- Push the cap -1- onto the door lock guide -2- -arrow a-.
- Lock the cap -1- into the center of the door lock -2--arrow b-.



Install in reverse order of removal.

- Secure the cable -5- to the outer door panel with tape.

Bolt tightening specification -2-: 18 Nm

Perform a functionality test. The door will not unlock if the adjustment is incorrect and it will not be possible to open the door.

#### 2.12 Mounting Bracket, Removing and Installing

⇒ 2.12.1 , page 120

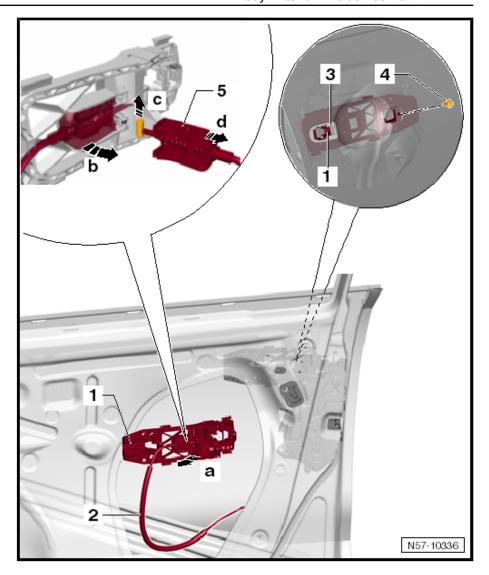
⇒ 2.12.2 , page 121

#### 2.12.1 Removing



The following describes the removal and installation of the right mounting bracket. Removing and installing the left mounting bracket is identical.





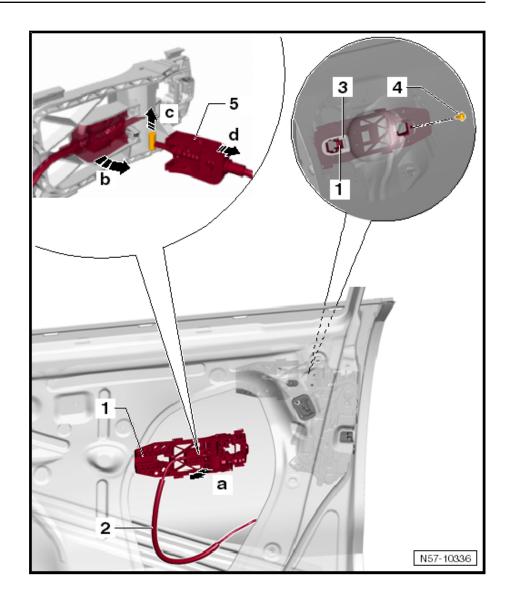
- Remove the cover. Refer to ⇒ C2.3 over, Removing and Installing", page 101.
- Remove the lock cylinder (refer to ⇒ C2.8 ylinder, Removing and Installing", page 109 ) or cap (refer to ⇒ w2.9 ithout Lock Cylinder, Removing and Installing", page 112 ).
- Remove the door handle. Refer to ⇒ H2.10 andle, Removing and Installing", page 114.
- Remove the bolt -4- and then remove the backing -3-.
- Remove the mounting bracket -1- from the door -arrow a-.

## Cable, Loosening

The cable -2- can be secured to the outer door panel with tape.

- Release the retainer -5- and swivel it out of the mount in the mounting bracket -arrow b-.
- Lift the pin for the cable out of the mount -arrow c-.
- Remove the cable -2- from the mounting bracket -1--arrow d-.

## 2.12.2 Installing



Install in reverse order of removal.

- Secure the cable -2- to the outer door panel with tape.

Screw tightening specification -4-: 1 Nm

#### Inner Window Shaft Seal, Removing 2.13 and Installing

⇒ 2.13.1 , page 122

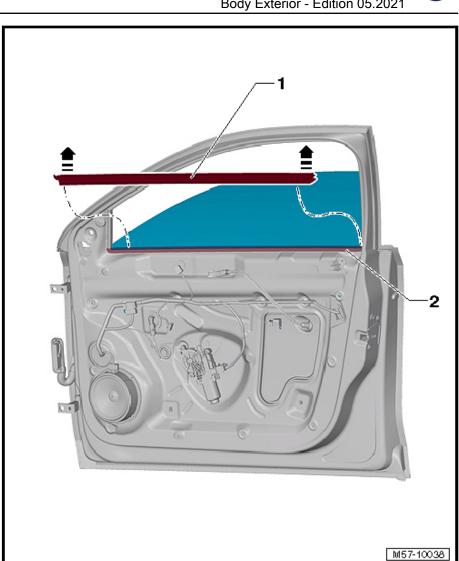
⇒ 2.13.2 , page 123

#### 2.13.1 Removing



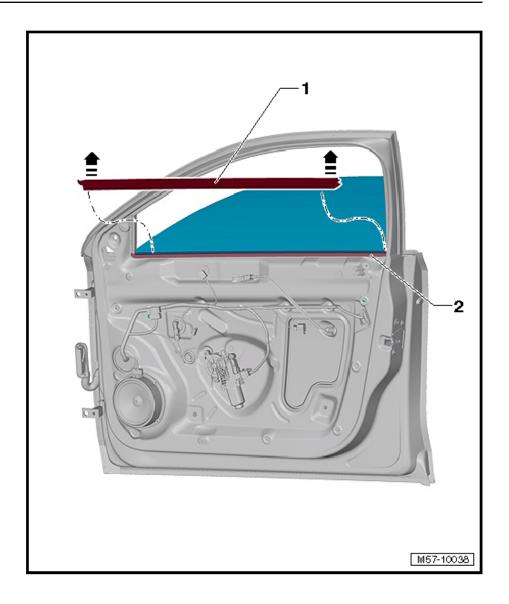
## Note

- The following describes removing and installing the right in-ner window shaft seal. Removing and installing the left inner window shaft seal is identical.
- Pull the strip off evenly without bending it.



- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the seal -1- evenly -arrows- from the flange -2-.

# 2.13.2 Installing



- Press the seal -1- onto the flange -2- evenly starting at the B-pillar.
- Install the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.

# 2.14 Outer Window Shaft Seal, Removing and Installing

⇒ 2.14.1 , page 125

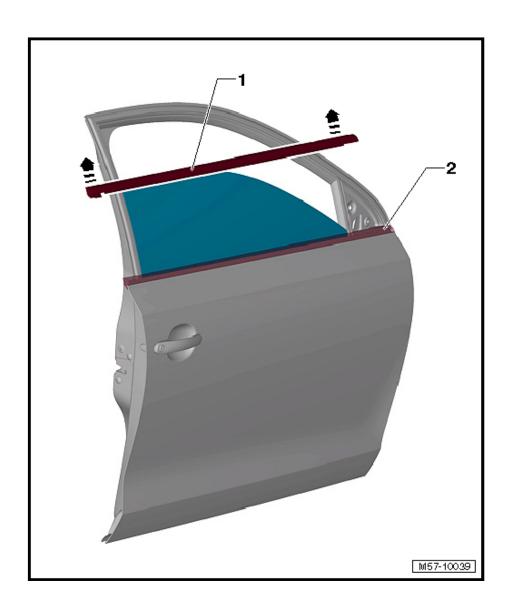
⇒ 2.14.2 , page 126

## 2.14.1 Removing



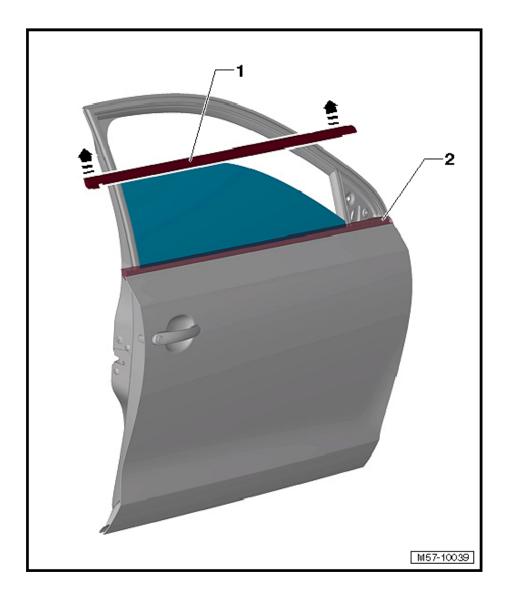
## Note

- ♦ The seal has a metal insert in the center.
- ♦ If it gets bent, it will not be possible to straighten it out again. It will remain "wavy".
- ♦ This is why the seal must be removed evenly without bending it.
- ♦ The following describes removing and installing the right outer window shaft. Removing and installing the left outer window shaft is identical.



- Remove the exterior mirror: manual. Refer to ⇒ E2.12 xterior Rearview Mirror, Removing and Installing", page 308, power. Refer to > E2.13 xterior Rearview Mirror, Removing and Installing", page 340 Installing", page 312
- Remove the seal -1- evenly in direction of -arrows- from the flange -2-.

#### 2.14.2 Installing



## Perform the Following:

- Position the seal -1- on the B-pillar and push it evenly onto the door flange -2-.
- Install the exterior mirror: manual. Refer to ⇒ E2.12 xterior Rearview Mirror, Removing and Installing", page 308, power. Refer to ⇒ E2.13 xterior Rearview Mirror, Removing and Installing", page 312.

# 2.15 Inner Door Seal, Removing and Installing

⇒ 2.15.1 , page 127

⇒ 2.15.2 , page 128

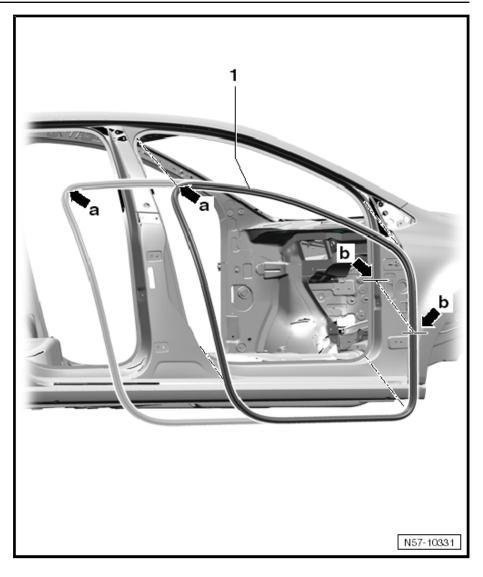
## 2.15.1 Removing

The inner door seals are equipped at the factory with sealant, applied to the door flange and then rolled on.



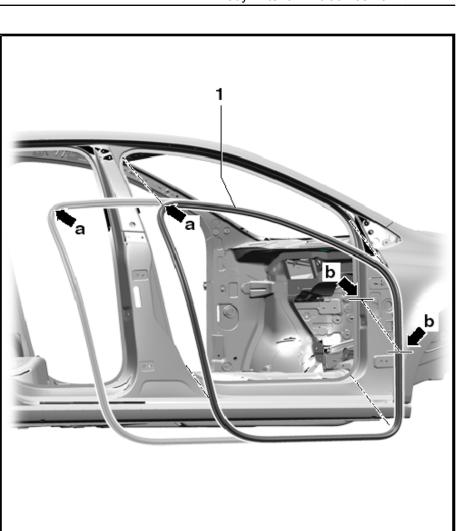
## Note

- ♦ The sealant on the inside of the seal will spread when the seal is removed. The sides will bend up slightly. The seal may not seal completely or be seated correctly if the seal is reinstalled.
- For this reason, every seal that has been removed completely must be replaced with a so-called "hammer-stroke seal".
- With partially removed seals, press the seal sides together before installing.
- The following describes removing and installing the right inner door seal. Removing and installing the left inner door seal is identical.



- It is necessary to remove the pillar trim in order to remove the inner door seal. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.
- Remove the sill panel strip ⇒ Body interior; Rep. Gr. 68.
- Remove the inner door seal -1- from the body flange.

#### 2.15.2 Installing



- Line up the inner door seal -1- with the vulcanized point -arrow b- with the upper hinge -arrow b-.
- Start installing the inner door seal at the top of the opening for the door -arrow a-.
- Install the sill panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels; Sill Panel, Removing and Installing.
- Install the pillar trim panels. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.

N57-10331

## Outer Door Seal, Removing and Instal-2.16

⇒ 2.16.1 , page 130

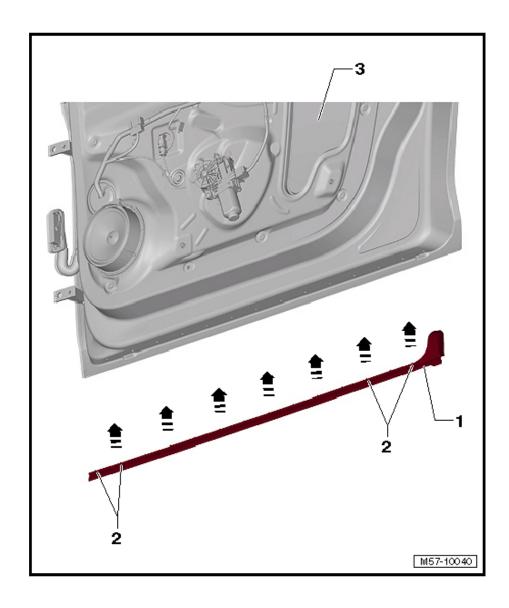
⇒ 2.16.2 , page 131

#### 2.16.1 Removing



## Note

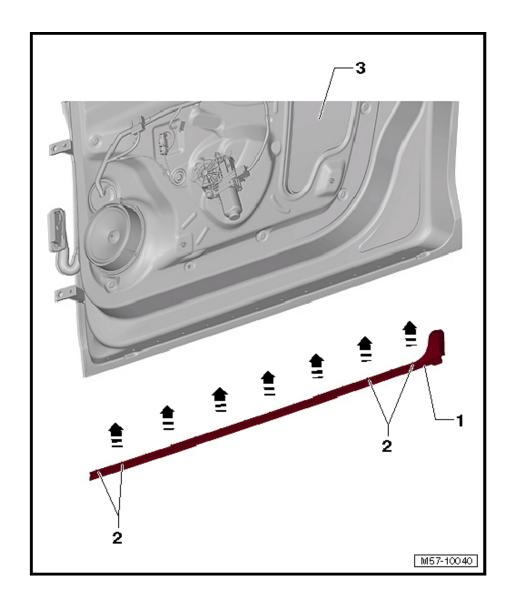
- The following describes removing and installing the right outer door seal. Removing and installing the left outer door seal is identical.
- Check clips for securing the outer door seal for damage and replace if necessary.



## Perform the Following:

Remove the outer door seal -1- and clips -2- from the door -3-.

# 2.16.2 Installing



## Perform the Following:

- · Replace any damaged clips -2-.
- Press the seal -1- and clips -2- onto the door -3- starting at the A-pillar.

## 2.17 Overview - Insulation



## **WARNING**

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to  $\Rightarrow$  -2.17 Insulation", page 131.

#### 1 - Foam Piece

☐ Clamped in the mirror triangle

## 2 - Foam Piece

☐ Clipped to the door

## 3 - Sticker

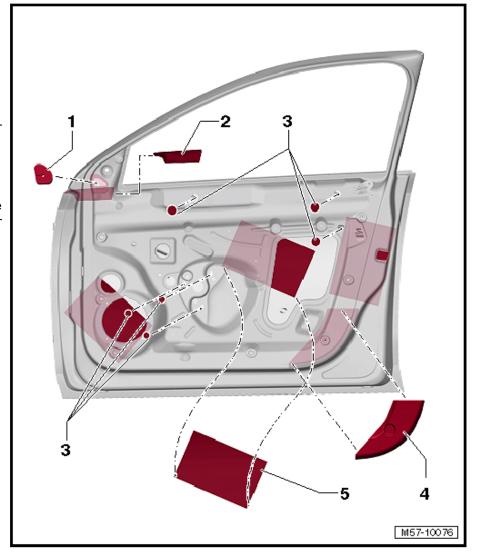
☐ Use commercially available duct tape if needed

## 4 - Outer Covering

☐ Installed depending on the market. Refer to the Parts Catalog for the allocation.

## 5 - Insulation

- □ Self-adhesive
- □ Installing:
- Cut to size if necessary, 250 mm x 160 mm
- Warm using the Wiring Harness Repair Set - Hot Air Blower -VAS1978/14A- and then press firmly onto the outer door panel.



#### 3 **Central Locking**

- ⇒ L3.1 ocation Overview Central Locking Components", page 133
- ⇒ C3.2 ontrol Keys, Adapting", page 135
- ⇒ -3.3 Remote Control Key (Foldable) Battery", page 136
- $\Rightarrow$  C3.4 ontrol Key Battery, Foldable, Removing and Installing", page 136
- ⇒ -3.5 Battery, Folding Key with Cap", page 138
- ⇒ R3.6 emoving and Installing, Folding Key with Cap", page 139

#### **Component Location Overview - Central Locking Components** 3.1

#### 1 - Connector Station

- ☐ Component location: left A-pillar
- Loosen the boot on the pillar to disconnect the connector

# 2 - Front Passenger Door Control Module -J387-

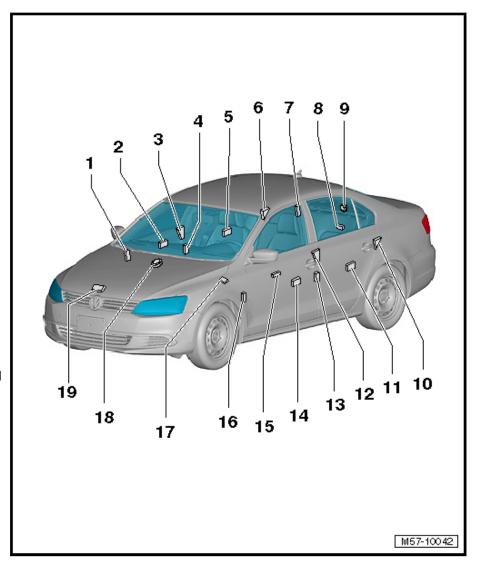
- ☐ Integrated inside the Front Passenger Window Regulator Motor V148-
- Removing and installing. Refer to ⇒
   R2.4 egulator Motor,
   Removing and Installing", page 250

# 3 - Front Passenger Door Lock

- The door lock is attached to the door inner panel
- ☐ The power central locking system is integrated in the door lock
- Removing and installing. Refer to 
   L2.11 ock, Removing and Installing", page 117

#### 4 - Connector Station

- ☐ Component location: right B-pillar
- Loosen the boot on the pillar to disconnect the connector



## 5 - Right Rear Door Control Module -J389-

- ☐ Integrated inside the Right Rear Window Regulator Motor -V27-
- □ Removing and installing. Refer to ⇒ R3.4 egulator Motor, Removing and Installing", page 268.

## 6 - Right Rear Door Lock

- ☐ The door lock is attached to the door inner panel
- ☐ The power central locking system is integrated in the door lock
- □ Removing and installing. Refer to ⇒ L2.9 ock, Removing and Installing", page 166.

## 7 - Fuel Filler Door Unlock Motor -V155-

□ Removing and installing. Refer to ⇒ F3.4 uel Filler Door Unlock Motor V155, Removing and Installing", page 86.

## 8 - Rear Lid Latch

- Installed location: on the rear lid
- Removing and installing. Refer to ⇒ R2.13 emoving and Installing", page 77.

## 9 - Release Button In Rear Lid Handle -E234-

- Installed location: on the rear lid
- □ Removing and installing. Refer to ⇒ R2.12 ear Lid Handle Unlock Switch E234, Removing and Installing", page 76.

#### 10 - Left Rear Door Lock

	The door lock is attached to the door inner panel				
	The power central locking system is integrated in the door lock				
	Removing and installing. Refer to ⇒ L2.9 ock, Removing and Installing", page 166.				
11 - L	11 - Left Rear Door Control Module -J388-				
	Integrated inside the Left Rear Window Regulator Motor -V26-				
	Removing and installing. Refer to ⇒ R3.4 egulator Motor, Removing and Installing", page 268.				
12 - Driver Side Door Lock					
	The door lock is attached to the door inner panel				
	The power central locking system is integrated in the door lock				
	Removing and installing. Refer to <u>⇒ L2.11 ock, Removing and Installing", page 117</u> .				
13 - Connector Station					
	Component location: left B-pillar				
	Loosen the boot on the pillar to disconnect the connector				
14 - C	4 - Driver Door Control Module -J386-				
	Integrated inside the Driver Window Regulator Motor -V147-				
	Removing and installing. Refer to ⇒ R2.4 egulator Motor, Removing and Installing", page 250 .				
15 - Driver Side Window Regulator Switch Module					
	Component location: inside the driver door trim panel				
	Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96.				
16 - C	Connector Station				
	Component location: right A-pillar				
	Loosen the boot on the pillar to disconnect the connector				
17 - Vehicle Electrical System Control Module -J519-					
	Installed location: under the instrument panel on the driver side; clipped to the relay panel				
	Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 97; Control Modules; Vehicle Electrical System Control Module -J519-, Removing and Installing/				
18 - Alarm Horn -H12-					
	Component location: inside the plenum chamber				
	Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96; Anti-Theft Alarm System; Alarm Horn -H12-, Removing and Installing.				
19 - Engine Hood Contact Switch -F266-					
	Component location: on the latch				
	Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96; Anti-Theft Alarm System; Engine Hood Contact Switch -F266-, Removing and Installing.				

## 3.2 Remote Control Keys, Adapting

Use the Vehicle Diagnostic Tester to adapt the remote control keys.

- Select "Guided Functions" on the Vehicle Diagnostic Tester.
- Using the GO TO button, select "Functions/Component selection" and the following menu options one after the other:
- Body
- ♦ Electrical Equipment (repair group. 01; 27; 90 to 97)
- ♦ 01 OBD-capable systems
- ♦ 09 Vehicle electrical system control module
- ♦ 09 Functions
- ♦ Adapt the remote control key

#### Overview - Remote Control Key (Foldable) Battery 3.3

## 1 - Key with Variable Code Transponder

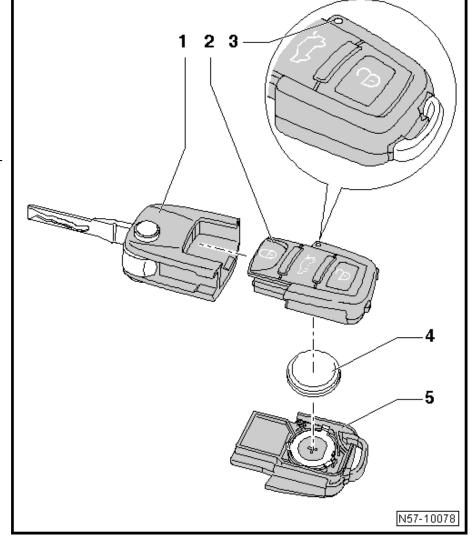
## 2 - Radio Frequency Unit -**Upper Section**

#### 3 - LED

- ☐ This LED must blink when remote control is operated.
- ☐ If LED does not blink when using the remote control, replace the battery.

## 4 - Battery

- Removing and installing. Refer to ⇒ C3.4 ontrol Key Bat-tery, Foldable, Removing and Installing", page 136
- 5 Radio Frequency Unit -**Lower Section**



#### Remote Control Key Battery, Foldable, 3.4 Removing and Installing

⇒ 3.4.1 , page 136

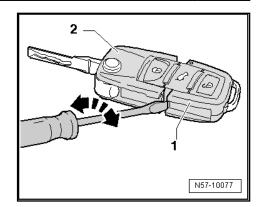
⇒ 3.4.2 , page 137

#### 3.4.1 Removing

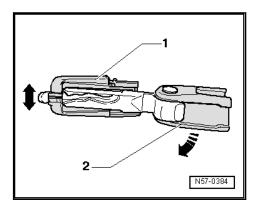
## Perform the Following:

Insert a screwdriver into the slot between the radio-frequency unit -1- and the key -2-.

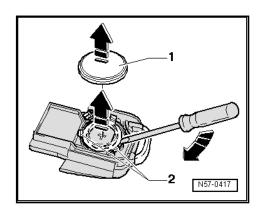




- Turn the screwdriver in the direction of the -arrow- and detach the radio-frequency unit from the key.
- Press apart the radio-frequency unit -1- using key bit of key -2-.



 Use a screwdriver to pry the battery -1- out of the retainer -2in the direction of the -arrow-.



# 3.4.2 Installing

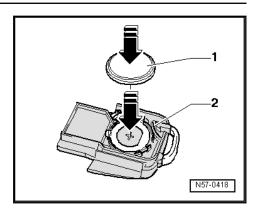


# Note

- Before installing the battery, one of the buttons must be pushed.
- ♦ This resets the radio-frequency unit, and it can now recognize the new battery.

### Perform the following:

Note the polarity and installation position when installing the battery.



- Place the battery -1- in the radio-frequency unit -2- with positive terminal downward (positive terminal is marked in housing).
- Press the battery in direction of -arrow- gently into the radiofrequency unit.
- Assemble the cover and the radio-frequency unit being careful not to damage the seal.
- Then engage the radio-frequency unit with the key.

#### 3.5 Overview - Battery, Folding Key with Cap

# 1 - Key with Radio-Frequency Unit

- Adaptation of remote control keys. Refer to
   ⇒ C3.2 ontrol Keys,
   Adapting", page 135
- ☐ The radio-frequency unit cannot be replaced separately

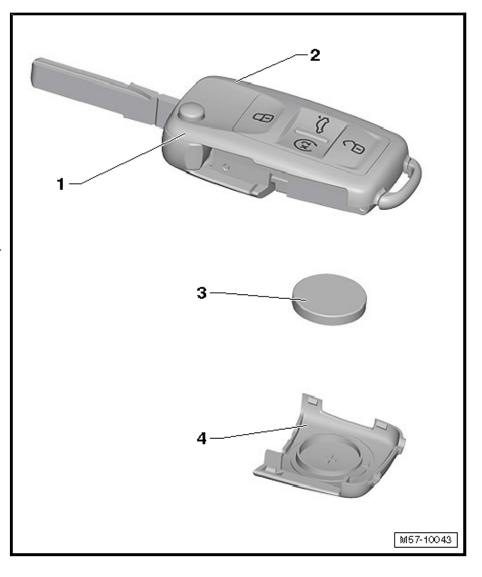
#### 2 - LED

- This LED must blink when remote control is operated.
- ☐ If LED does not blink when using the remote control, replace the battery.

#### 3 - Battery

Removing and installing. Refer to ⇒ R3.6 emoving and Installing, Folding Key with Cap", page 139.

### 4 - Cap



# 3.6 Battery, Removing and Installing, Folding Key with Cap

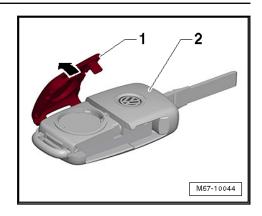
⇒ 3.6.1 , page 139

⇒ 3.6.2 , page 140

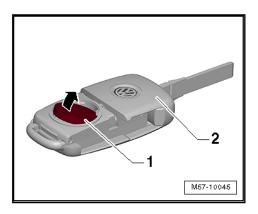
# 3.6.1 Removing

#### Perform the Following:

Fold out the key blade.



- Pry off the cap -1- on the back of the key -2- in direction of the -arrow- with a screwdriver.
- Remove the battery -1- from the key -2- in the direction of the -arrow- with a screwdriver.



#### 3.6.2 Installing

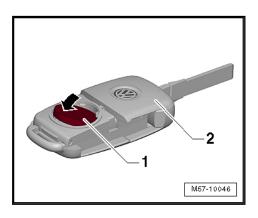


## Note

- Before installing the battery, one of the buttons must be pushed.
- This resets the radio-frequency unit, and it can now recognize the new battery.

## Perform the Following:

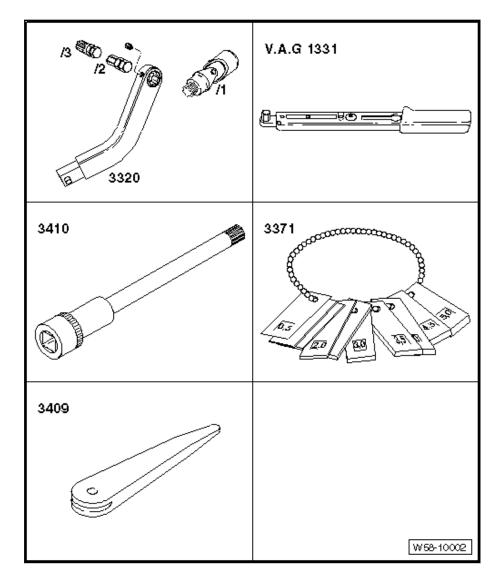
Note the polarity and installation position when installing the battery.



- Place the battery -1- inside the battery compartment with the positive side facing up -2- -arrow-.
- Push the battery gently into the battery compartment.
- Install the cap onto the back of the key.

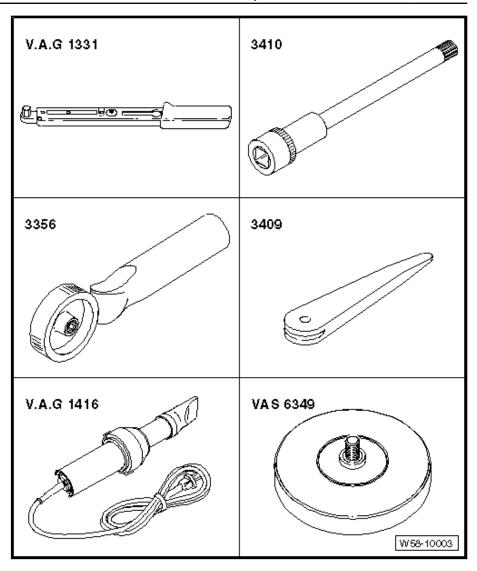
# **Special Tools**

#### Special tools and workshop equipment required



- Torque Wrench 1331 5-50Nm -VAG1331-
- Wrench Door Adjusting -3320-
- Joint for 3320 Tool -3320/1-
- Wrench Door Adjusting Box Wrench -3320/2-
- Wrench Door Adjusting Box Wrench -3320/3-
- Roller -3356-
- Gauge Gap Adjustment -3371-
- Trim Removal Wedge -3409-
- Cylinder Head Bolt Socket -3410-





- ♦ Hot Air Blower -VAG1416-
- ♦ Adhesive Strip Remover -VAS6349-

# **Rear Doors**

## Rear Door

- ⇒ 1.1 , page 144
- ⇒ -1.2 Door Hinges", page 144
- ⇒ R1.3 emoving and Installing", page 146
- ⇒ a1.4 fter Replacing B-Pillar", page 148
- ⇒ A1.5 djustment", page 149

#### 1.1 **Tools**

### Special tools and workshop equipment required

- ♦ Wrench Door Adjusting -3320-
- ◆ Door Adjusting Wrench Joint -3320/1-
- ♦ Wrench Door Adjusting Box Wrench -3320/2-
- ♦ Wrench Door Adjusting Box Wrench -3320/3-
- ◆ Gauge Gap Adjustment -3371-
- ♦ Trim Removal Wedge -3409-
- ♦ Cylinder Head Bolt Socket -3410-
- ◆ Torque Wrench 1331 5-50Nm -VAG1331-

#### 1.2 Overview - Door Hinges



- The illustration shows the right side. The left side is identical.
- ♦ Always replace the door hinge bolts if they have been loosened.

#### 1 - Door

- Removing and installing. Refer to ⇒
   R1.3 emoving and Installing", page 146
- Refer to ⇒ A1.5 djustment", page 149 for adjusting.

### 2 - Bolt

- ☐ Tightening specification: 40 Nm
- Always replace. It is permitted to loosen the bolt just one time when adjusting the door.

#### 3 - Door Hinge

- ☐ The hinge has two sections.
- ☐ A bolt -4- attaches the upper section to the lower section.

#### 4 - Bolt

- ☐ Tightening specification: 23 Nm.
- Attaches the upper section -3- to the lower section -7-

#### 5 - Cap

☐ Place over the bolt -4-

#### 6 - Bolt

- ☐ Tightening specification: 40 Nm
- Always replace. It is permitted to loosen the

bolt just one time when adjusting the door.

- ☐ Installed from the vehicle interior
- □ The B-pillar lower trim must be removed for removing and installing. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.
- □ Follow the tightening specifications after replacing the B-pillar. Refer to ⇒ a1.4 fter Replacing B-Pillar", page 148

## 7 - Door Hinge

- ☐ The hinge has two sections.
- ☐ A bolt -4- attaches the lower section to the upper section.

### 8 - Bolt

- ☐ Tightening specification: 40 Nm
- ☐ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- ☐ Follow the tightening specifications after replacing the B-pillar. Refer to ⇒ a1.4 fter Replacing B-Pillar", page 148

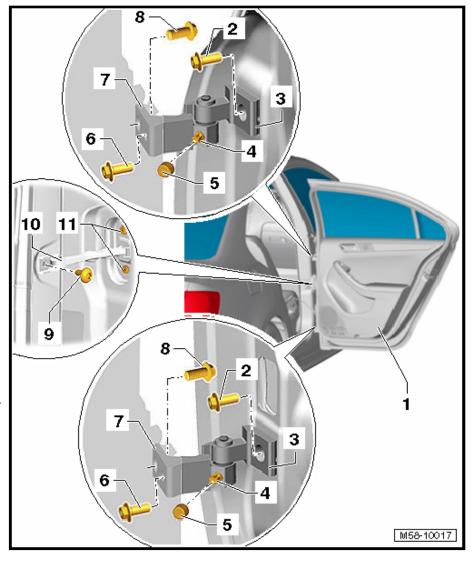
#### 9 - Bolt

☐ Tightening specification: 30 Nm

#### 10 - Door Strap

☐ Removing and installing. Refer to ⇒ S2.4 trap, Removing and Installing", page 156.

#### 11 - Bolt





- ☐ Tightening specification: 9 Nm
- ☐ Quantity: 2

#### Door, Removing and Installing 1.3



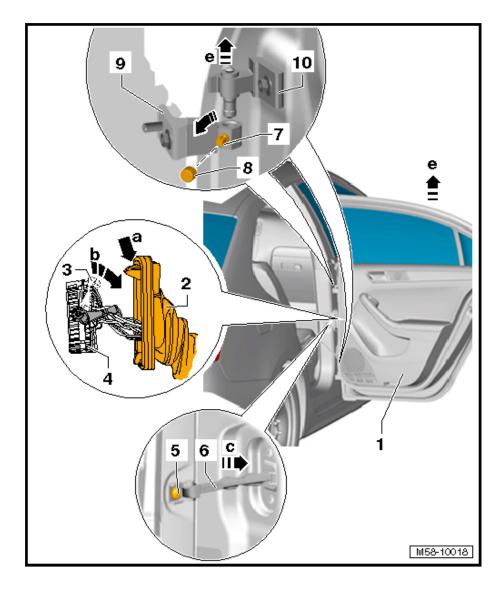
Note

The following describes removing and installing the right door. Removing and installing the left door is identical.

⇒ 1.3.1 , page 146

⇒ 1.3.2 , page 147

#### 1.3.1 Removing

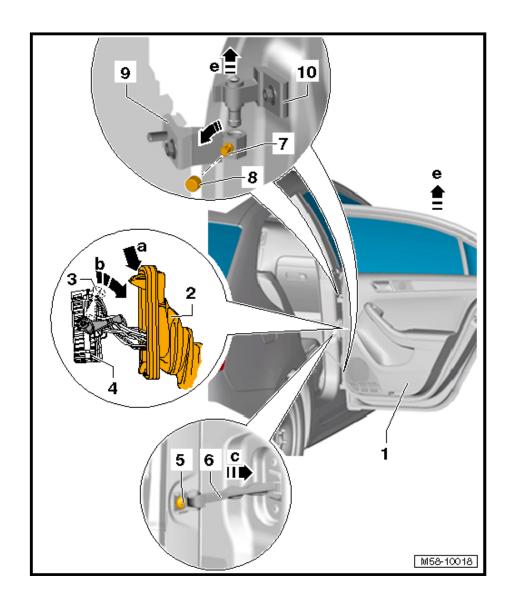


### Perform the Following Procedures:

Disconnect the battery ground cable with the ignition turned on. Refer to  $\Rightarrow$  Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.

- Press on the catch -arrow a- and remove the boot -2- from the B-pillar.
- Swing the locking lever -3- downward in direction of -arrow b- and disconnect the connector -4- from connector station.
- Remove the caps -8- from the bolts -7-.
- Loosen the bolts -7- on the hinges in direction of -arrow d-.
- Remove the bolt -5- from the door strap -6-.
- Push the door strap -6- toward the inside in direction of -arrow c-.
- Lift the door -1- upward in direction of -arrow e- out of the hinges -9-.

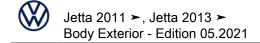
# 1.3.2 Installing



#### Perform the Following Procedures:

Install in reverse order of removal.

 Connect the battery ground cable with the ignition switched on. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.



Bolt tightening specification -5-: 30 Nm

Bolt tightening specification -7-: 23 Nm

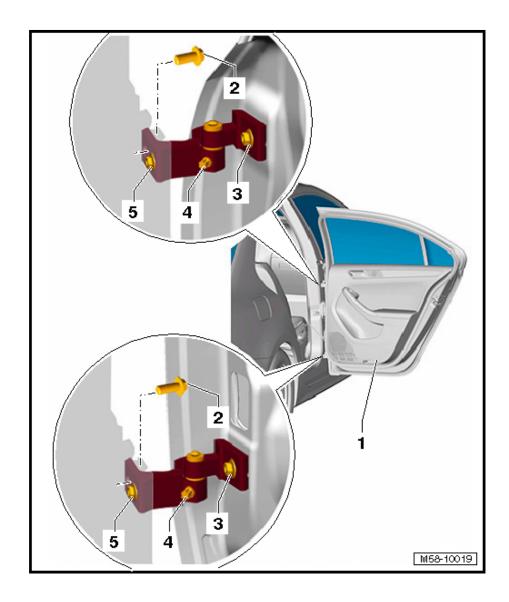
- Adjust the door. Refer to ⇒ A1.5 djustment", page 149.
- Make sure the rear door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Center.

#### Installing after Replacing B-Pillar 1.4



### **WARNING**

If the B-pillar was replaced, then tighten the bolts on the B-pillar exactly as described.



### Perform the Following Procedures:

- The B-pillar was replaced.
- Always replace the bolts. It is permitted to loosen the bolt just one time when adjusting the door.

Install in reverse order of removal.

- Install the door -1- and tighten the bolts -2 and 6- to 20 Nm and 90°.
- Connect the battery ground cable with the ignition switched on. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.
- Adjust the door. Refer to ⇒ A1.5 djustment", page 149.
- Make sure the front door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body Center.

# 1.5 Door Adjustment

⇒ A1.5.1 djusting Gap Dimension and Flush Dimension", page 149

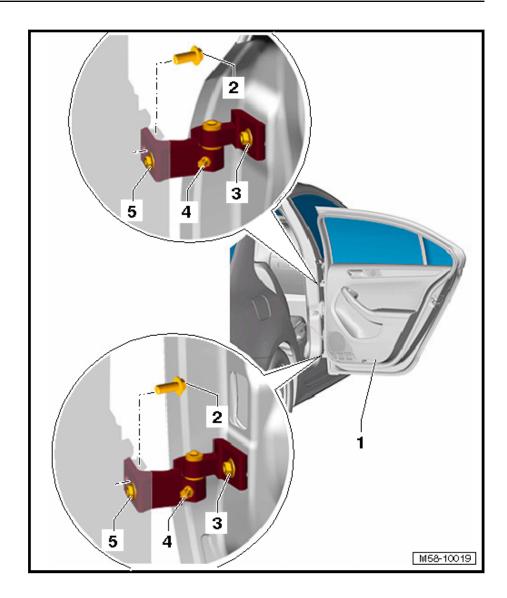
⇒ P1.5.2 in, Adjusting", page 151

# 1.5.1 Door, Adjusting Gap Dimension and Flush Dimension



#### Note

- ♦ The vehicle must standing on all four wheels when adjusting the rear door.
- ♦ The rear door is properly adjusted when there is an overall even gap dimension when closed. It is not too far toward the inside or the outside and the contours align.
- ♦ Checking the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions.
- ◆ Perform corrosion protection measures on the hinges and the bolts after assembling or adjusting.



#### Perform the Following:

#### Gap Dimensions, Adjusting

For the correct gap dimension adjustment, the bolts -2 and 5on the B-pillar must be loosened.

To remove the bolts -5-, the B-pillar lower trim must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.

#### Flush Dimension Adjustment

The bolts -3- must be loosened in order to adjust the flush dimensions correctly.

Use the -3320- with the respective bit for this.



### Note

Other measures, such as aligning the door upward, do not work. Pressure later will cause the door to sag again.

Adjust the striker pin. Refer to <u>⇒ P1.5.2 in, Adjusting", page</u> <u>151</u>

# 1.5.2 Striker Pin, Adjusting



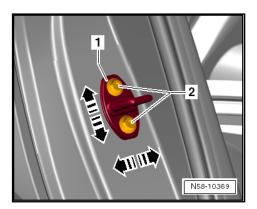
#### Note

- ♦ The following describes adjusting the right rear door. Adjusting the left rear door is identical.
- ♦ When closing, the door must lock completely without applying additional force and it must not have any play.
- By adjusting the catch, the door must not be pushed upward or downward.

The alignment of the rear door to the side panel can be adjusted using the striker pin (wind noises).

#### Perform the Following:

Loosen the bolts -2- on the C-pillar and loosen the striker pin
 -1-.



- Adjust the door with lock bracket -1- so that the rear door aligns with side panel when closed (wind noise).
- Tighten the bolts -2- on the striker pin -1-.

Bolt tightening specification -2-: 25 Nm

#### 2 **Door Components**

- ⇒ 2.1 , page 152
- ⇒ -2.2 Rear Door", page 152
- ⇒ R2.3 emoving and Installing", page 154
- ⇒ S2.4 trap, Removing and Installing", page 156
- ⇒ P2.5 in, Removing and Installing", page 158
- ⇒ -2.6 Door Handle and Door Lock", page 159
- ⇒ R2.7 emoving and Installing", page 160
- ⇒ H2.8 andle, Removing and Installing", page 163
- ⇒ L2.9 ock, Removing and Installing", page 166
- ⇒ B2.10 racket, Removing and Installing", page 169
- ⇒ W2.11 indow Shaft Seal, Removing and Installing", page 172
- ⇒ W2.12 indow Shaft Seal, Removing and Installing", page 173
- ⇒ D2.13 oor Seal, Removing and Installing", page 176
- ⇒ D2.14 oor Seal, Removing and Installing", page 179
- ⇒ -2.15 Insulation", page 181

#### 2.1 **Tools**

## Special tools and workshop equipment required

- ♦ Roller -3356-
- ◆ Trim Removal Wedge -3409-
- ◆ Cylinder Head Bolt Socket -3410-
- ◆ Torque Wrench 1331 5-50Nm -VAG1331-
- ♦ Wiring Harness Repair Set Hot Air Blower -VAS1978/14A-
- ♦ Adhesive Strip Remover -VAS6349-

#### 2.2 Overview - Rear Door

#### 1 - Door

- □ Removing and installing. Refer to ⇒ R1.3 emoving and Installing", page 146.
- Refer to ⇒ A1.5 djustment", page 149 for adjusting.

#### 2 - Outer Window Shaft Seal

- Note the different versions. Refer to ⇒
   D2.12.1 ifferentiating",
   page 173.
- Removing and installing. Refer to ⇒
   W2.12 indow Shaft
   Seal, Removing and Installing", page 173.

### 3 - Mounting Bracket

Removing and installing. Refer to ⇒
 B2.10 racket, Removing and Installing",
 page 169

#### 4 - Door Handle

Removing and installing. Refer to ⇒
 H2.8 andle, Removing and Installing", page 163.

## 5 - Cable

- ☐ From the mounting bracket -3- to the door lock -9-
- □ Secured to the outer door panel with adhesive tape

# 20 19 5 6 7 18 8 18 19 9 17 16 15 10 11

## 6 - Backing Plate

#### 7 - Cap

☐ Removing and installing. Refer to ⇒ R2.7 emoving and Installing", page 160.

#### 8 - Fixed Door Window

☐ Removing and installing. Refer to ⇒ D3.7 oor Window, Removing and Installing", page 278.

#### 9 - Door Lock

□ Removing and installing. Refer to ⇒ L2.9 ock, Removing and Installing", page 166.

#### 10 - Bolt

- ☐ Tightening specification: 18 Nm.
- Quantity: 2

#### 11 - Outer Door Seal

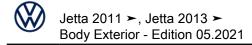
- □ Note the different versions. Refer to <u>⇒ D2.14.1 ifferentiating</u>", page 179.
- $\square$  Removing and installing. Refer to  $\Rightarrow$  D2.14 oor Seal, Removing and Installing", page 179.

## 12 - Cap

#### 13 - Cover

□ Removing and installing. Refer to ⇒ R2.3 emoving and Installing", page 154.

#### 14 - Speaker



☐ Riveted to the door

#### 15 - Door Strap

□ Removing and installing. Refer to <u>⇒ S2.4 trap, Removing and Installing</u>", page 156.

#### 16 - Bolt

☐ Tightening specification: 9 Nm

Quantity: 2

#### 17 - Screw

☐ Tightening specification: 4 Nm.

Quantity: 2

#### 18 - Retaining Bracket

☐ For attaching the door trim panel

#### 19 - Inner Window Shaft Seal

□ Removing and installing. Refer to ⇒ W2.11 indow Shaft Seal, Removing and Installing", page 172.

#### 20 - Door Window

Removing and installing. Refer to ⇒ W3.3 indow, Removing and Installing", page 264.

#### 2.3 Cover, Removing and Installing

⇒ 2.3.1 , page 154

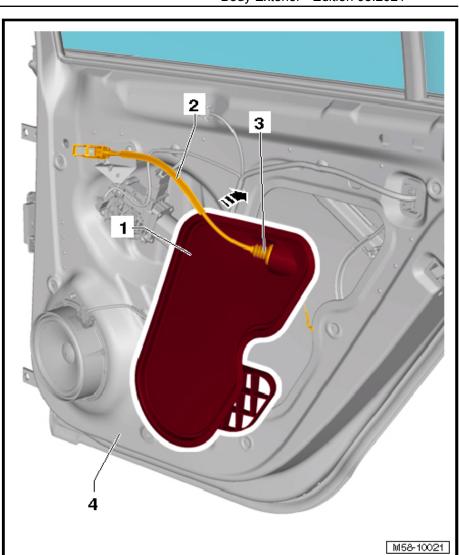
⇒ 2.3.2 , page 155

#### 2.3.1 Removing



Note

The following describes removing and installing the right cover. Removing and installing the left cover is identical.



## Perform the Following:

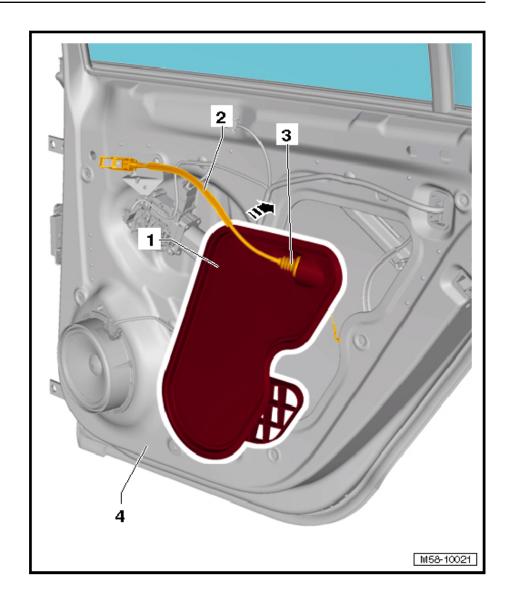
- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Door Trim Panels.
- Lift the cover -1- at the top.
- Remove the cover -1- from the door -4-.



## Note

If it is necessary for the following work steps, remove the cable -2- with the grommet -3- from the cover -1-.

# 2.3.2 Installing



### Perform the following:

- Pull the cable -2- through the cover -1- and secure the grommet -3-.
- Insert the bottom of the cover -1- into the door -4-.
- Push the top of the cover -1- into the door -4- in direction of -arrow-.

#### Door Strap, Removing and Installing 2.4

⇒ 2.4.1 , page 156

⇒ 2.4.2 , page 157

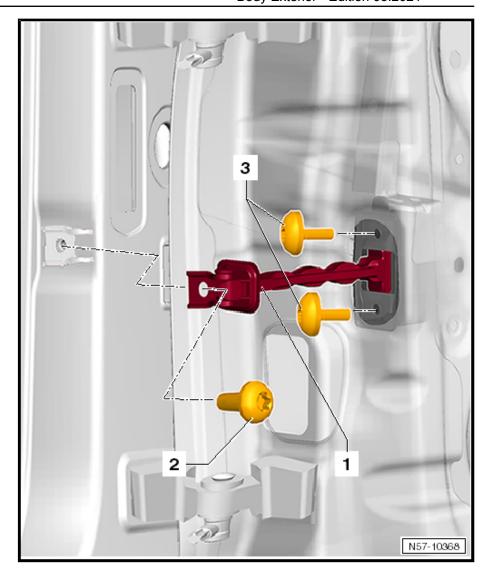
#### 2.4.1 Removing



Note

The following describes removing and installing the right door strap. Removing and installing the left door strap is identical.

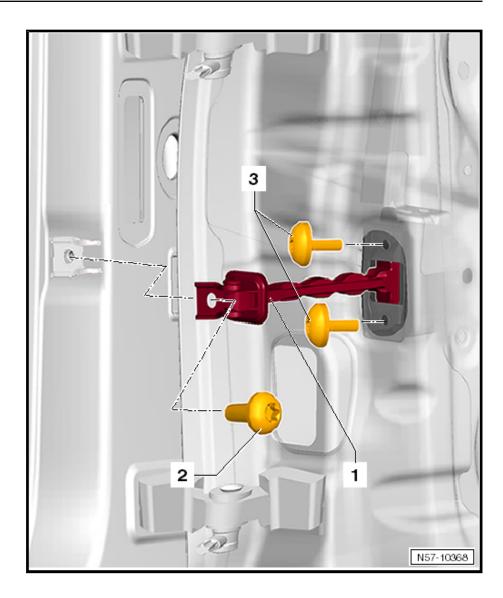




## Perform the Following:

- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the riveted speaker.
- Remove the bolt -2- from the B-pillar.
- Remove the bolts -3- and remove the door strap -1- through the opening for the speaker.

# 2.4.2 Installing



### Perform the Following:

Install in reverse order of removal.

Tightening specification for the bolts -2-: 30 Nm

Tightening specification for the bolts -3-: 9 Nm

#### 2.5 Striker Pin, Removing and Installing

⇒ 2.5.1 , page 158

⇒ 2.5.2 , page 159

#### 2.5.1 Removing

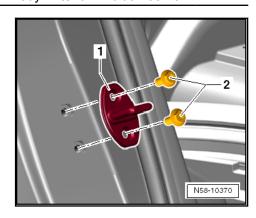


Note

The following describes the removal and installation of the right catch. Removing and installing the left striker pin is identical.

# Perform the Following:

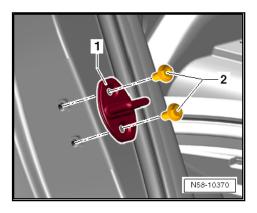
Remove the bolts -2- and the catch -1-.



# 2.5.2 Installing

## Perform the Following:

Position the catch -1- on the C-pillar and tighten the bolts -2-.



Bolt tightening specification -2-: 25 Nm

Adjust the catch. Refer to ⇒ P1.5.2 in, Adjusting", page 151.

# 2.6 Overview - Door Handle and Door Lock



Note

The illustration shows the right side. The left side is identical.

#### 1 - Bolt

- Tightening specification: 18 Nm.
- Quantity: 2

#### 2 - Door Lock

Removing and installing. Refer to ⇒ L2.9 ock, Removing and Installing", page <u> 166</u> .

#### 3 - Cable

- ☐ From the door lock -2to the mounting bracket
- Secured to the outer door panel with adhesive tape

#### 4 - Cable

- ☐ From the interior door mechanism to the door lock -2-
- With a grommet for the pass through on the cover

#### 5 - Mounting Bracket

Removing and installing. Refer to B2.10 racket, Removing and Installing", page 169

#### 6 - Screw

- ☐ Tightening specification: 1 Nm.
- Loosening this bolt loosens the mounting bracket from the door.

#### 7 - Door Handle

□ Removing and installing. Refer to ⇒ H2.8 andle, Removing and Installing", page 163.

#### 8 - Cap

☐ Removing and installing. Refer to ⇒ R2.7 emoving and Installing", page 160.

#### 9 - Backing Plate

#### 2.7 Cap, Removing and Installing

⇒ 2.7.1 , page 160

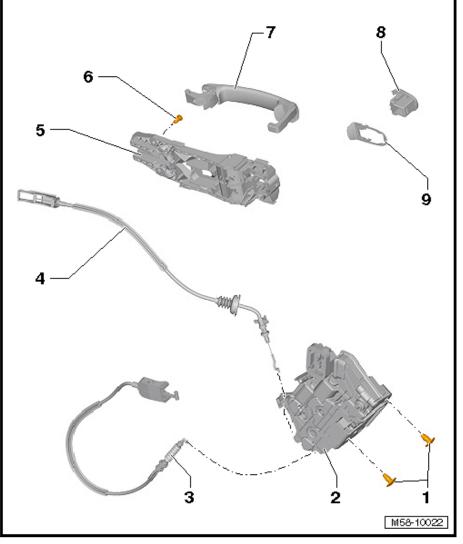
⇒ 2.7.2 , page 161

⇒ 2.7.3 , page 162

#### 2.7.1 **Tools**

#### Special tools and workshop equipment required

♦ Lock Cylinder Housing Assembly Tool -T10389-

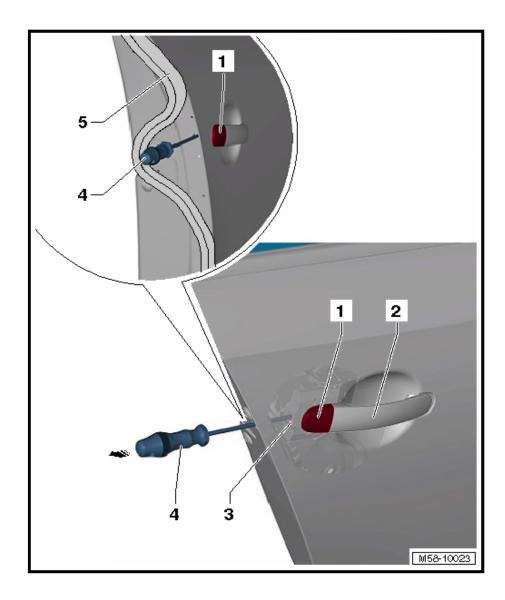


# 2.7.2 Removing

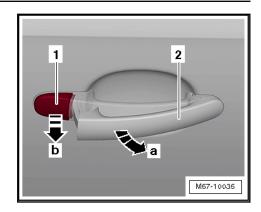


Note

The following describes removing and installing the right cap. Removing and installing the left cap is identical.



- Remove the outer door seal -5- near opening for the hooks.
   Refer to ⇒ D2.14 oor Seal, Removing and Installing", page 179.
- Install the -T10389- into the opening behind the hooks -3- for the cap -1-.
- Pull the -T10389- toward the rear -arrow- until the locking hooks are released.
- Remove the door handle -2- from the door in the direction of the -arrow a-.

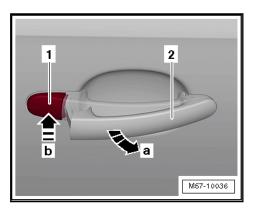


Remove the cap -1- at a right angle in direction of -arrow b-from the mounting bracket.

#### 2.7.3 Installing

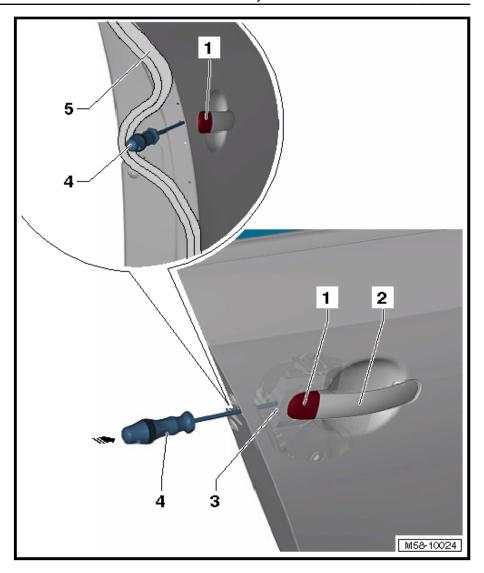
## Perform the Following:

Remove the door handle -2- from the door in the direction of the -arrow a-.



Install the cap -1- at a right angle into the mounting bracket in direction of -arrow b-.





- Insert a screwdriver -4- on the hooks -3- in the mounting bracket.
- Push the cap -1- onto the door.
- Push the screwdriver in just far enough -arrow- to release the hook.
- Install the outer door seal -5- near opening for the hooks.
   Refer to ⇒ D2.14 oor Seal, Removing and Installing", page 179

# 2.8 Door Handle, Removing and Installing

⇒ 2.8.1 , page 163

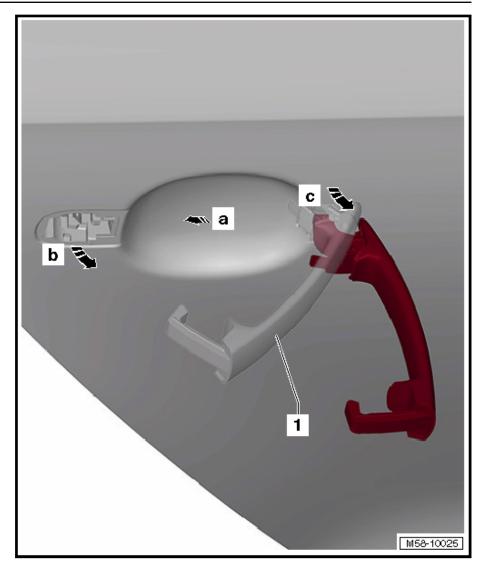
⇒ 2.8.2 , page 164

# 2.8.1 Removing



Note

The following describes the removal and installation of the right door handle. Removing and installing the left door handle is identical.

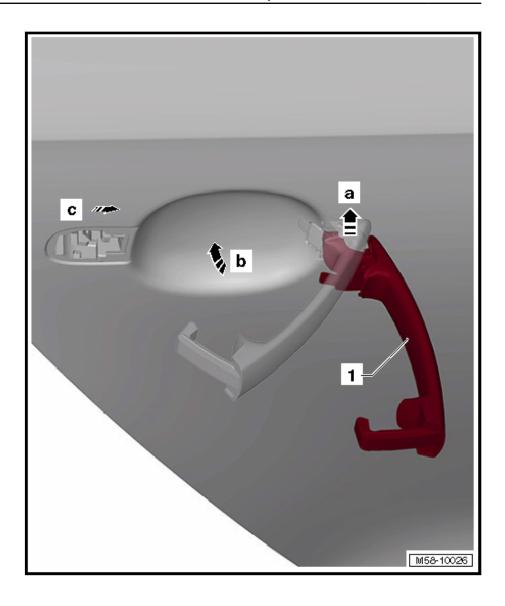


## Perform the Following:

- Remove the cap. Refer to ⇒ R2.7 emoving and Installing", page 160.
- Pull the door handle -1- slightly to the rear in direction of -arrow a- and out of the mounting bracket mount.
- Pivot the door handle in the direction of the -arrow b-.
- Remove the door handle at a right angle in direction of -arrow c- from the mounting bracket.

#### 2.8.2 Installing





- Insert the door handle -1- into the mounting bracket at a right angle in direction of -arrow a-.
- Install the door handle -1- into the door in direction of -arrow b-.
- Push the door handle toward the front in direction of -arrow c- into the mount in the mounting bracket.
- Install the cap. Refer to ⇒ R2.7 emoving and Installing", page 160.
- Always perform a function test with the door open.

#### Door Lock, Removing and Installing 2.9

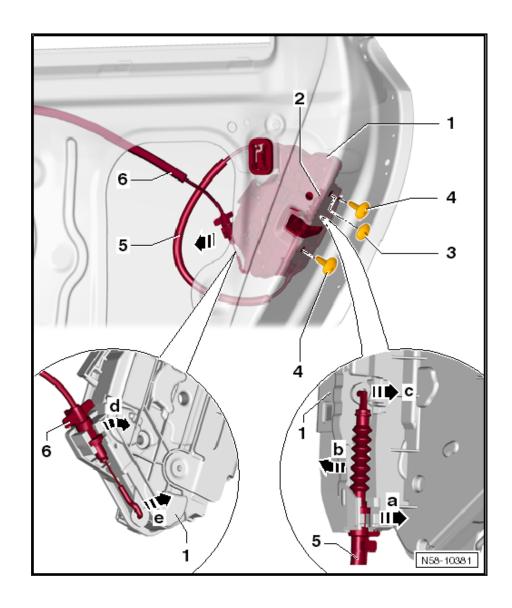
- ⇒ 2.9.1 , page 166
- ⇒ 2.9.2 , page 167

#### Removing 2.9.1



Note

The following describes removing and installing the right door lock. Removing and installing the left door lock is identical.



- Remove the cover. Refer to ⇒ R2.3 emoving and Installing", page 154
- Disconnect the connector from the door lock -1-.
- Remove the bolts -4-.
- Remove the door lock -1- from the door -2-.



### Note

If it is necessary for the following work steps, loosen the cables.

#### Cable to Mounting Bracket, Loosening

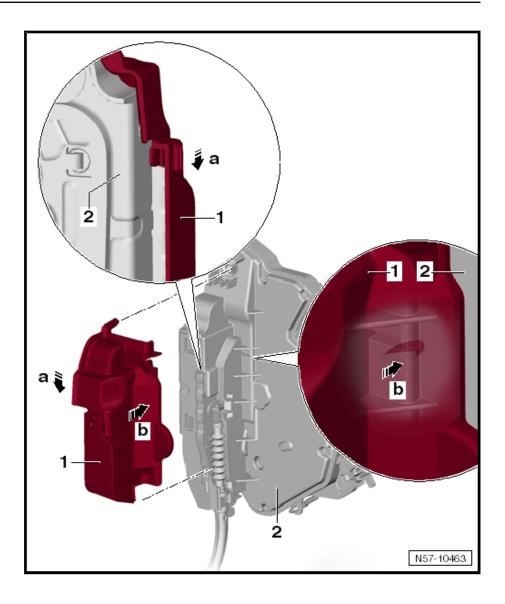
The cable -5- can be secured to the outer door panel with adhesive tape.

- If equipped, remove the cap from the door lock.
- Turn the cable -5- 90° and remove it in direction of -arrow aout of the bracket.
- Move the cable in direction of -arrow b- until it can be guided out of the eye in the door lock -1- in direction of -arrow c-.

#### Cable to Interior Door Mechanism, Loosening

- Turn the cable -6- 90° and remove it from the mount.
- Move the cable in direction of -arrow d- until it can be guided out of the eye in the door lock -1- in direction of -arrow e-.

## 2.9.2 Installing



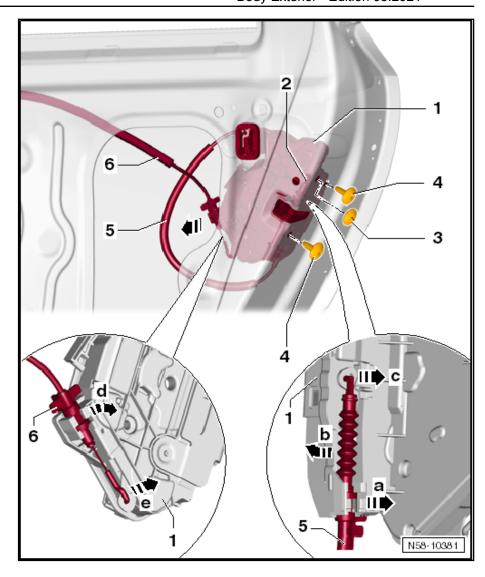


# Note

Install the cap before installing the door lock.

- Push the cap -1- onto the door lock guide -2- in direction of -arrow a-.
- Lock the cap -1- into the center of the door lock -2- in direction of -arrow b-.





Install in reverse order of removal.

- Secure the cable -5- to the outer door panel with tape.

Bolt tightening specification -4-: 18 Nm

 Perform a functionality test. The door will not unlock if the adjustment is incorrect and it will not be possible to open the door.

# 2.10 Mounting Bracket, Removing and Installing

⇒ 2.10.1 , page 169

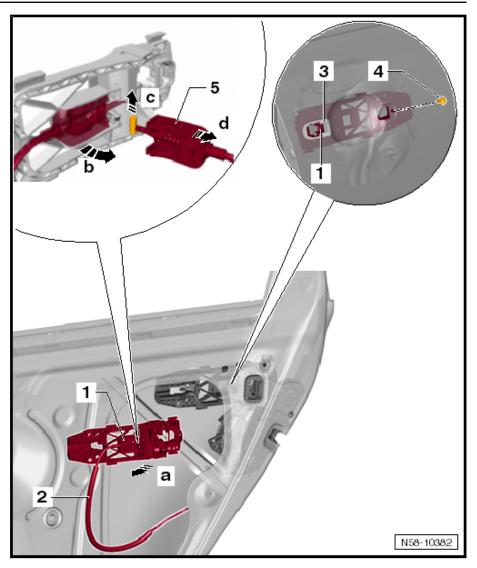
⇒ 2.10.2 , page 171

# 2.10.1 Removing



Note

The following describes the removal and installation of the right mounting bracket. Removing and installing the left mounting bracket is identical.



#### Perform the following:

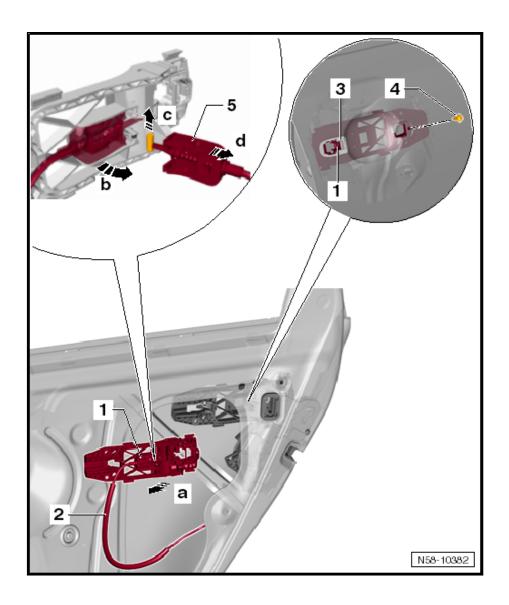
- Remove the cover. Refer to ⇒ R2.3 emoving and Installing", page 154
- Remove the cap. Refer to ⇒ R2.7 emoving and Installing", page 160.
- Remove the door handle. Refer to ⇒ H2.8 andle, Removing and Installing", page 163.
- Remove the bolt -4- and then remove the backing -3-.
- Remove the mounting bracket -1- from the door in direction of -arrow a-.

### Cable, Loosening

The cable -2- can be secured to the outer door panel with tape.

- Release the retainer -5- and swivel it out of the mount in the mounting bracket in direction of -arrow b-.
- Lift the pin for the cable out of the mount in direction of -arrow c-.
- Remove the cable from the mounting bracket in direction of -arrow d-.

# 2.10.2 Installing



# Perform the Following:

Install in reverse order of removal.

- Secure the cable -2- to the outer door panel with tape.

Screw tightening specification -4-: 1 Nm

#### Inner Window Shaft Seal, Removing 2.11 and Installing

⇒ 2.11.1 , page 172

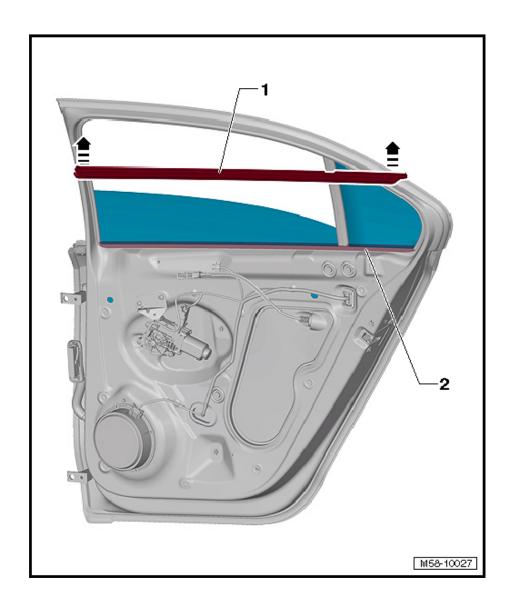
⇒ 2.11.2 , page 173

#### 2.11.1 Removing



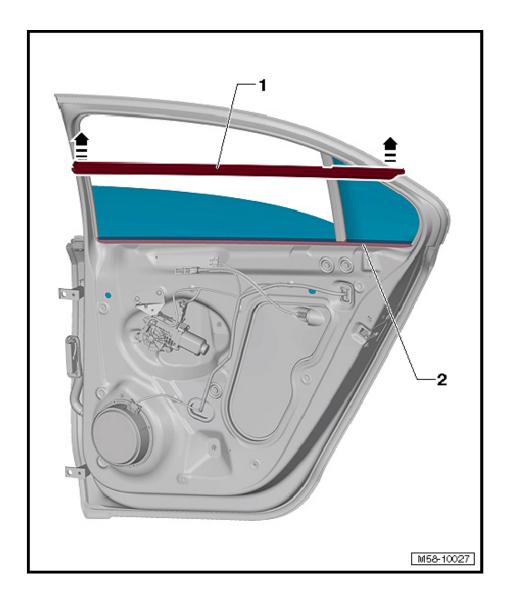
## Note

- The following describes removing and installing the right inner window shaft seal. Removing and installing the left inner window shaft seal is identical.
- Pull the strip off evenly without bending it.



- Remove the rear door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the seal -1- evenly in direction of -arrows- from the flange -2-.

# 2.11.2 Installing



## Perform the Following:

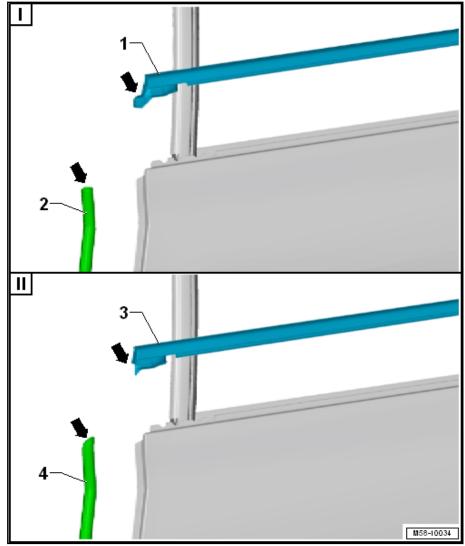
- Press the seal -1- onto the flange -2- evenly starting at the B-pillar.
- Install the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Door Trim Panels.

# 2.12 Outer Window Shaft Seal, Removing and Installing

- ⇒ D2.12.1 ifferentiating", page 173
- ⇒ 2.12.2 , page 175
- ⇒ 2.12.3 , page 175

# 2.12.1 Versions, Differentiating

- I Previous Outer Window Shaft Seal -1- and Outer Door Seal -2-
- II New Outer Window Shaft Seal -3- and Outer Door Seal



The previous outer window shaft seal -1- and the new outer window shaft seal -3- differ from each other at the front ends on the B-pillar -arrows-.

The outer window shaft seal and the outer door seal are paired to each other -arrows-. Therefore installing a previous version of the part with a new part is not possible.

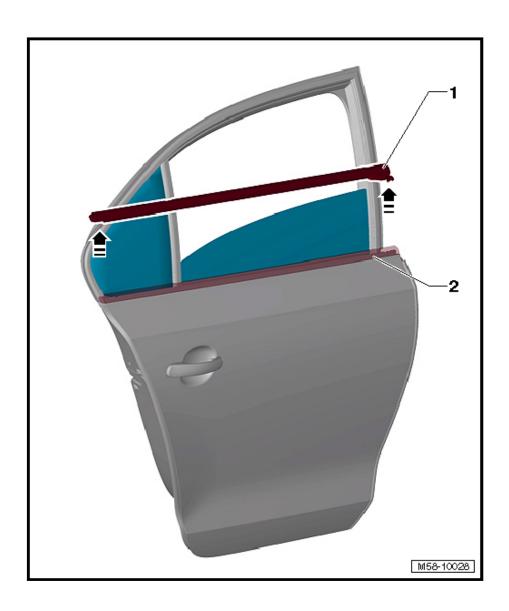
If a previous outer window shaft seal -1- is being replaced with a new outer window shaft seal -3-, then the previous outer door seal -2- must also be replaced with a new outer door seal -4-.

# 2.12.2 Removing



## Note

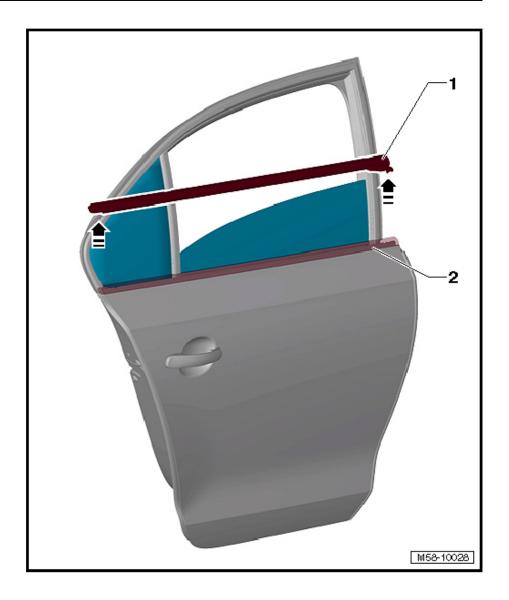
- ♦ The seal has a metal insert in the center. If it gets bent, it will not be possible to straighten it out again. It will remain "wavy".
- This is why the seal must be removed evenly without bending it.
- ♦ The following describes removing and installing the right outer window shaft. Removing and installing the left outer window shaft is identical.



## Perform the Following:

 Remove the seal -1- evenly in direction of -arrows- from the flange -2-.

# 2.12.3 Installing



## Perform the Following:

- When replacing the seal -1-, pay attention to the different versions. Refer to  $\Rightarrow$  D2.12.1 ifferentiating", page 173 .
- Position the seal -1- on the B-pillar and push it evenly onto the door flange -2-.

# Inner Door Seal, Removing and Instal-2.13

⇒ 2.13.1 , page 176

⇒ 2.13.2 , page 178

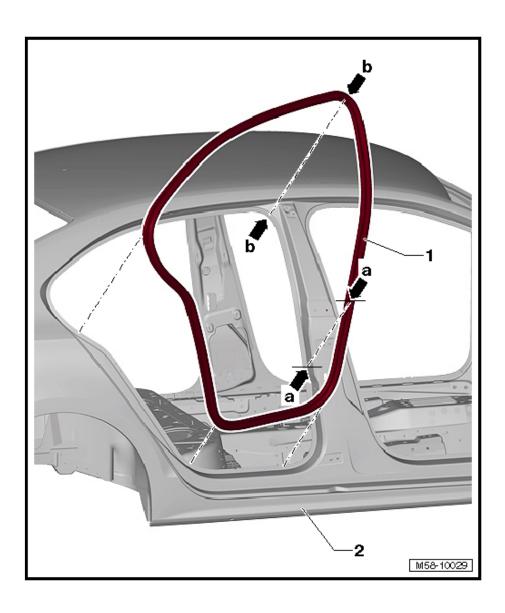
#### 2.13.1 Removing

The inner door seals are equipped at the factory with sealant, applied to the door flange and then rolled on.



## Note

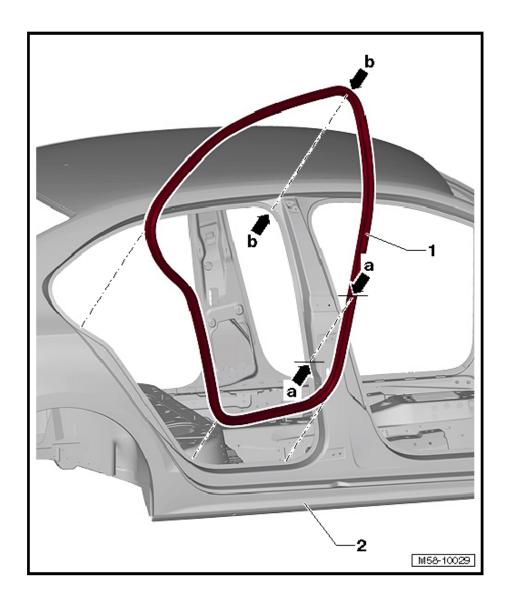
- ◆ The sealant on the inside of the seal will spread when the seal is removed. The sides will bend up slightly. The seal may not seal completely or be seated correctly if the seal is reinstalled.
- For this reason, every seal that has been removed completely must be replaced with a so-called "hammer-stroke seal".
- With partially removed seals, press the seal sides together before installing.
- The following describes removing and installing the right inner door seal. Removing and installing the left inner door seal is identical.



- It is necessary to remove the pillar trim in order to remove the inner door seal. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.
- Remove the sill panel strip ⇒ Body interior; Rep. Gr. 68.

Remove the inner door seal -1- from the body flange -2-.

#### 2.13.2 Installing



- Line up the inner door seal -1- with the vulcanized point -arrow a- with the lower hinge -arrow a-.
- Install the inner door seal -1- starting at the top of the door opening -arrow b-.
- Install the sill panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels; Sill Panel, Removing and Installing.
- Install the pillar trim panels. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.

# 2.14 Outer Door Seal, Removing and Installing

⇒ D2.14.1 ifferentiating", page 179

⇒ 2.14.2 , page 180

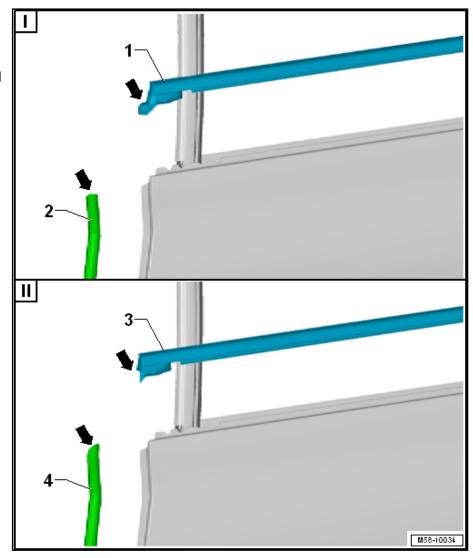
⇒ 2.14.3 , page 180

# 2.14.1 Versions, Differentiating

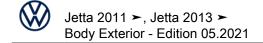


### Note

- The following describes removing and installing the right outer door seal. Removing and installing the left outer door seal is identical.
- ♦ Check clips for securing the outer door seal for damage and replace if necessary.
- I Previous Outer Door Seal -2- and Outer Window Shaft Seal -1-
- II New Outer Door Seal -4and Outer Window Shaft Seal -3-



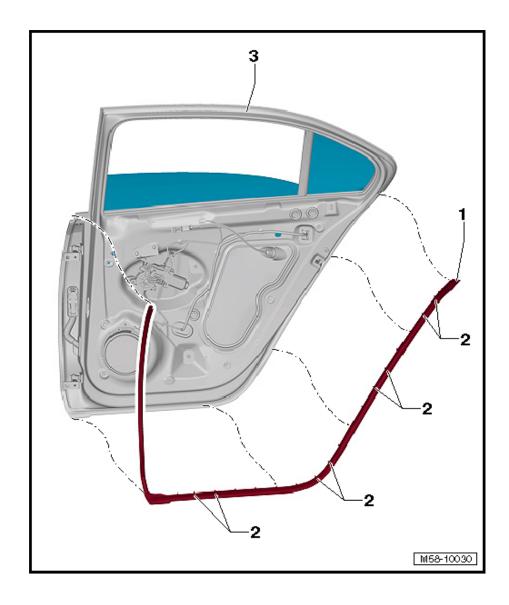
The previous outer door seal -2- and the new outer door seal -4- differ from each other at the upper ends on the B-pillar -arrows-.



The outer door seal and the outer window shaft seal are paired to each other -arrows-. Therefore installing a previous version of the part with a new part is not possible.

If a previous outer door seal -2- is being replaced with a new outer door seal -4-, then the previous outer window shaft seal -1- must also be replaced with a new outer window shaft seal -3-.

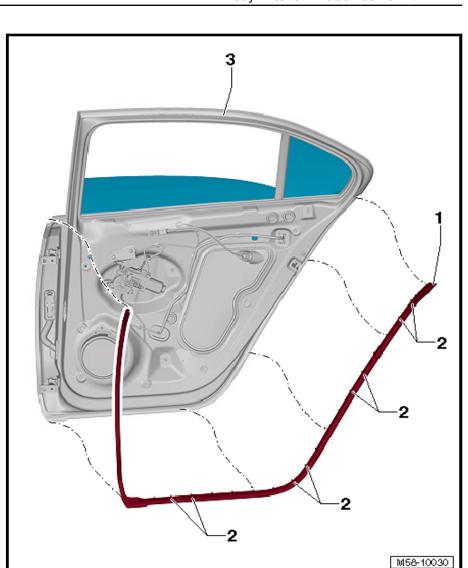
#### Removing 2.14.2



## Perform the Following:

Remove the outer door seal -1- and clips -2- from the door

#### 2.14.3 Installing



## Perform the Following:

- · Replace any damaged clips -2-.
- When replacing the outer door seal -1-, pay attention to the different versions. Refer to <u>⇒ D2.14.1 ifferentiating", page</u> 179
- Press the outer door seal -1- onto the door -3- first at the B-pillar.
- Press the rest of the outer door seal -1- and clips -2- onto the door -3-.

# 2.15 Overview - Insulation

#### 1 - Insulation

- □ Self-adhesive
- □ Installing:
- Cut to size if necessa-
- Warm using the Wiring Harness Repair Set Hot Air Blower -VAS1978/14A- and then press firmly onto the outer door panel.

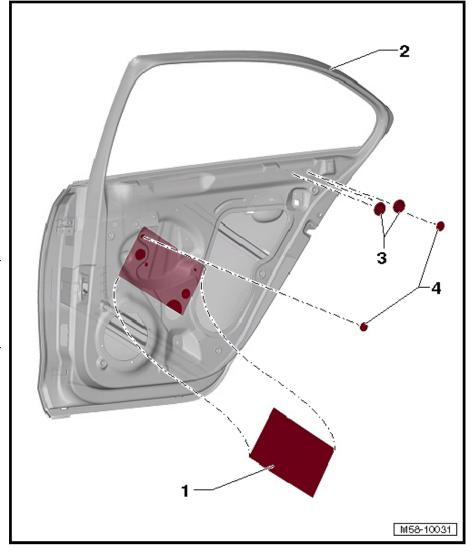
#### 2 - Door

### 3 - Sticker

- ☐ 40 mm diameter
- ☐ Use commercially available duct tape if nee-

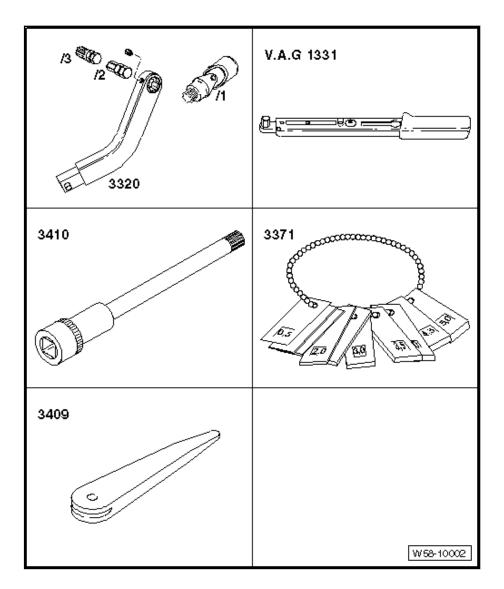
#### 4 - Sticker

- 20 mm diameter
- □ Use commercially available duct tape if needed



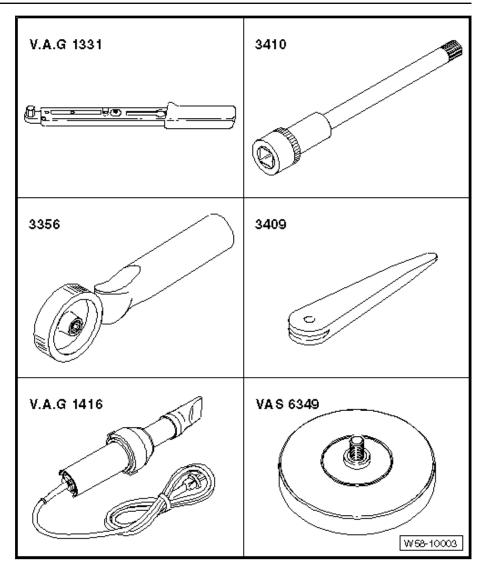
# 3 Special Tools

Special tools and workshop equipment required



- ♦ Wrench Door Adjusting -3320-
- ♦ Joint for 3320 Tool -3320/1-
- ♦ Wrench Door Adjusting Box Wrench -3320/2-
- ♦ Wrench Door Adjusting Box Wrench -3320/3-
- ♦ Roller -3356-
- ♦ Cylinder Head Bolt Socket -3410-
- ◆ Gauge Gap Adjustment -3371-
- ◆ Trim Removal Wedge -3409-

# Special tools and workshop equipment required



- Torque Wrench 1331 5-50Nm -VAG1331-
- Hot Air Blower -VAG1416-
- Adhesive Strip Remover -VAS6349-

# 60 – Sunroof

# 1 Sliding/Tilting Sunroof with Glass Panel

- ⇒ 1.1 , page 185
- ⇒ 1.2 , page 185
- ⇒ 1.3 , page 186
- ⇒ S1.4 unroof Glass Panel, Removing and Installing", page 188
- ⇒ P1.5 anel Height Adjustment", page 189
- ⇒ P1.6 anel, Checking Parallel Movement", page 191
- ⇒ P1.7 anel, Adjusting Parallel Movement", page 192
- ⇒ S1.8 eal, Replacing", page 193
- ⇒ D1.9 eflector, Removing and Installing", page 193
- ⇒ S1.10 hade, Removing and Installing", page 195
- ⇒ S1.11 unroof Motor, Removing and Installing", page 196
- ⇒ S1.12 unroof Motor, Adjusting Neutral Position", page 197
- ⇒ S1.13 unroof Motor, Adapting", page 197
- ⇒ R1.14 otary Switch for Sliding/Tilting Sunroof, Removing", page 197
- ⇒ U1.15 nit, Removing and Installing", page 198
- ⇒ D1.16 rain Hoses, Cleaning", page 201

#### 1.1 Tools

### Special tools and workshop equipment required

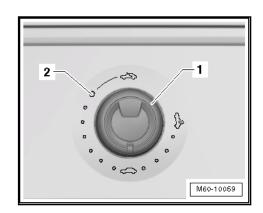
♦ Torque Wrench 1783 - 2-10Nm -VAG1783-

#### 1.2 Function

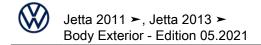
The sliding/tilting sunroof only works when the ignition is switched on.

After the ignition is switched off, these functions are available until the driver or passenger door is opened.

The dial -1- opens the glass panel.



Opening the glass sunroof in the convenience position -2- prevents most driving noise that may occur when open completely.



The glass sunroof can be tilted and closed by pulling or pushing the rotary switch.

The sliding/tilting sunroof is equipped with a pinch protection in area of the window. When an obstruction is met during the closing sequence, the roof opens again by itself.

There is also an emergency closing function. If there are problems closing the sliding/tilting sunroof, it can be forced closed by pulling on the back end of the dial. The rotary switch must be in the "Sunroof closed" position.

#### For the Emergency Close Function, the Closing Force Limit is Deactivated.

The motor for the sliding sunroof has overheat protection, which activates under different conditions. After the sliding sunroof motor has cooled down, it can be operated again.

If there is a malfunction in the electrical system, the sliding/tilting sunroof motor can be moved using a hex wrench.

#### 1.3 Overview



#### 1 - Sliding/Tilting Sunroof Glass Panel (One-Piece Safety Glass)

- Removing and installing. Refer to ⇒
   S1.4 unroof Glass Panel, Removing and Installing", page 188
- □ Height adjustment. Refer to ⇒ P1.5 anel Height Adjustment", page 189
- □ Parallel Movement, Checking. Refer to
   ⇒ P1.6 anel, Checking Parallel Movement", page 191.
- Parallel Movement, Adjusting. Refer to ⇒
   P1.7 anel, Adjusting
   Parallel Movement",
   page 192.

#### 2 - Boot

- □ Left and right
- ☐ For covering the slotted guide rail guide

#### 3 - Bolt

- □ 7 Nm
- Replace after removing.
- Quantity: 3 on each side

#### 4 - Screw

- For attaching the gliding piece to the sun shade
- ☐ Tightening specification: 1 Nm.
- Quantity: 2 on each side

### 5 - Gliding Piece

- For the sun shade
- Quantity: 2 on each side

#### 6 - Sunshade

□ Removing and installing. Refer to ⇒ S1.10 hade, Removing and Installing", page 195.

### 7 - Assembly Unit

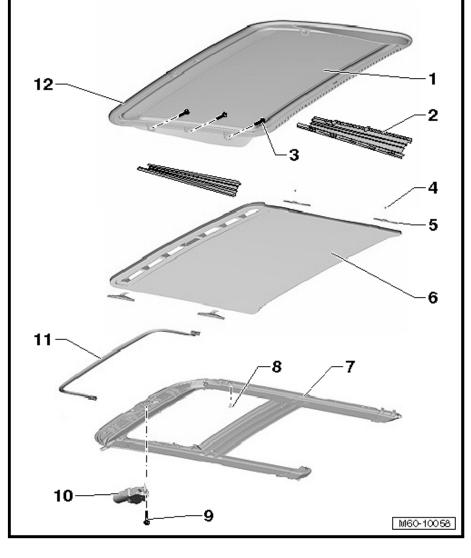
- Removing and installing. Refer to ⇒ U1.15 nit, Removing and Installing", page 198.
- □ U-frame (with guide channels) The guide channels can be lubricated if necessary, but only use special grease G 000 450 02. Otherwise, proper function cannot be guaranteed.

#### 8 - Bolt

- ☐ Tightening specification: 8 Nm
- For attaching the assembly unit to the body roof
- ☐ Quantity: 12

#### 9 - Screw

- ☐ Tightening specification: 4 Nm.
- □ Quantity: 3



### 10 - Sliding/Tilting Sunroof Motor

- $\square$  Removing and installing. Refer to  $\Rightarrow$  S1.11 unroof Motor, Removing and Installing", page 196.
- □ Neutral position, adjusting. Refer to ⇒ S1.12 unroof Motor, Adjusting Neutral Position", page 197.

#### 11 - Wind Deflector

□ Removing and installing. Refer to ⇒ D1.9 effector, Removing and Installing", page 193.

#### 12 - Panel Seal

□ Replacing. Refer to ⇒ S1.8 eal, Replacing", page 193.

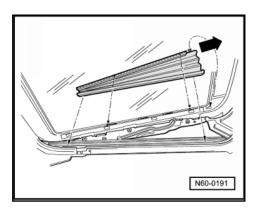
#### 1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing

⇒ 1.4.1 , page 188

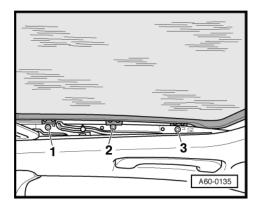
⇒ 1.4.2 , page 189

#### 1.4.1 Removing

- Move the sun shade toward the rear.
- Tilt open the sliding/tilting sunroof.
- Unclip the boot on the lower strip.



- Loosen both front retainers and push the boot to the rear -arrow- and out of the guide.
- Move the glass panel to the neutral position.
- Remove the bolts -1 and 3-.

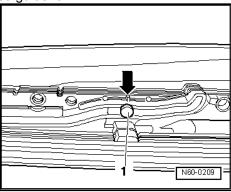


- Loosen the bolt -2- a few turns but do not remove it.
- Remove the glass panel from the roof opening.

# 1.4.2 Installing

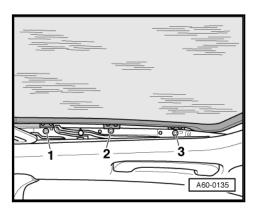
## Perform the Following:

 The guide pin -1- must line up with the marking -arrow- on the left and right slotted guide rail.



If this is not the case, adjust the parallel movement. Refer to <u>⇒</u> P1.7 anel, Adjusting Parallel Movement", page 192.

- Install the glass panel from the top into the roof opening.
- Install the new bolts -1 and 3- and tighten them only after adjusting the height of the glass panel.



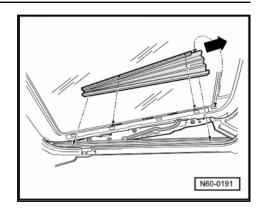
 Adjust the height of the glass panel. Refer to ⇒ P1.5 anel Height Adjustment", page 189

# 1.5 Glass Panel Height Adjustment

### Perform the Following:

#### The Boot is Still Not Removed:

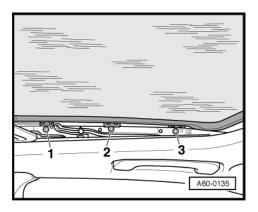
- Move the sun shade toward the rear.
- Tilt open the sliding/tilting sunroof.
- Unclip the boot on the lower strip.



- Loosen both front retainers and push the boot to the rear -arrow- and out of the guide.
- Move the glass panel to the neutral position.

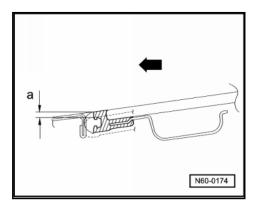
#### **Continuation for All Vehicles:**

Loosen the bolts -1 through 3- but do not remove them.



To prevent wind noise, adjust the front and rear height of the glass panel as illustrated.

Adjusting the height at the front glass panel (the -arrow- points in direction of travel).

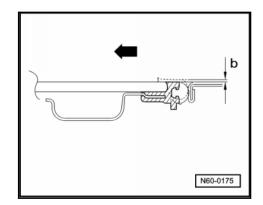


- -a- = 0 to 1 mm lower than roof
- Tighten the front bolts for the glass panel.

Tightening specification: 7 Nm

Adjusting the height of the back of the glass panel (the -arrowpoints in direction of travel).

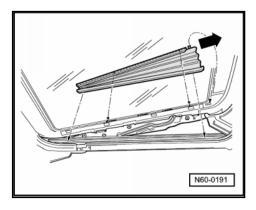




- -b- = 0 to 1 mm higher than roof
- Tighten the rear bolts for the glass panel.
- Tighten the center bolts for the glass panel.

Tightening specification: 7 Nm

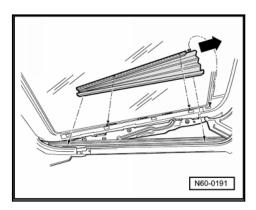
- Tilt open the sliding/tilting sunroof.
- Install the boot into the mounts onto the slotted guide rail guide.



- Install the boot into the frame.

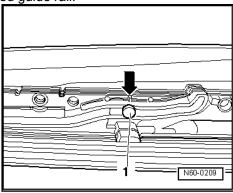
# 1.6 Glass Panel, Checking Parallel Movement

- Move the sun shade toward the rear.
- Tilt open the sliding/tilting sunroof.
- Unclip the boot on the lower strip.



- Loosen both front retainers and push the boot to the rear -arrow- and out of the guide.
- Move the glass panel to the neutral position.

The guide pin -1- must line up with the marking -arrow- on the left and right slotted guide rail.



If this is not the case, adjust the parallel movement. Refer to ≥ P1.7 anel, Adjusting Parallel Movement", page 192.

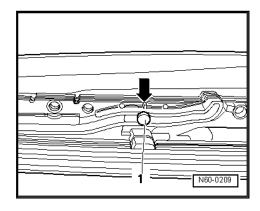
#### 1.7 Glass Panel, Adjusting Parallel Movement



Note

The parallel movement can only be adjusted when the sliding/tilting sunroof motor and the glass panel are removed (neutral position).

- Remove the glass panel. Refer to ⇒ S1.4 unroof Glass Panel, Removing and Installing", page 188
- Remove the sliding/tilting sunroof motor. Refer to ⇒ S1.11 unroof Motor, Removing and Installing", page 196.
- Move the slotted guide rail guide on both sides by hand until the guide pin -1- lines up with the marking -arrow- on the slotted guide rail guide.

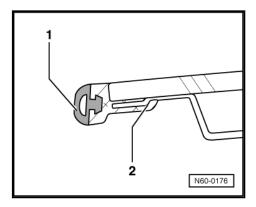


- Install and adjust the sliding/tilting sunroof motor. Refer to ⇒ S1.11 unroof Motor, Removing and Installing", page 196.
- Install the glass panel. Refer to ⇒ S1.4 unroof Glass Panel, Removing and Installing", page 188

## 1.8 Panel Seal, Replacing

### Perform the Following:

- Remove the glass panel. Refer to ⇒ S1.4 unroof Glass Panel, Removing and Installing", page 188.
- Remove the seal -1- from the glass panel -2-.



- Press the center of the new seal into the glass panel -2-.



### Note

Coat the edge of the panel with soapy water to make it easier to install the seal.

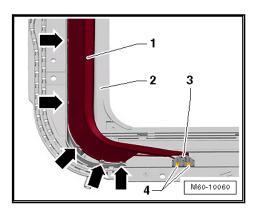
# 1.9 Wind Deflector, Removing and Installing

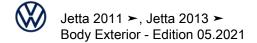
⇒ 1.9.1 , page 193

⇒ 1.9.2 , page 194

## 1.9.1 Removing

- Open the sliding/tilting sunroof completely.
- Remove the assembly unit. Refer to ⇒ U1.15 nit, Removing and Installing", page 198.
- Unclip the wind deflector -1- from the unit -2- -arrows-.







#### Caution

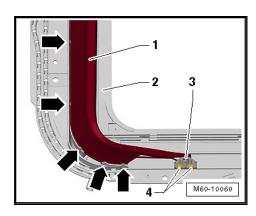
The wind deflector and jointing piece are pretensioned by a spring in the wind deflector. The pretension must not be reduced when the bolt is loosened otherwise the thread in the unit will get damaged.

- Push the joint -3- onto the assembly unit -2- maintaining the pretension while removing the bolts.
- Remove the left bolts -4- first and then the right. Always push on the joining piece -3- while doing this to maintain the pretension.
- Remove the joints -3- with the springs and wind deflector -1-.

#### 1.9.2 Installing

#### Perform the Following:

Position the wind deflector -1- with the springs and joining pieces -3- on the assembly unit -2-.





#### Caution

The wind deflector and jointing piece are pretensioned by a spring in the wind deflector. The pretension must not be reduced when the bolt is being installed otherwise the thread in the unit will get damaged.

- Push the joint -3- onto the assembly unit -2- maintaining the pretension while installing the bolts.
- Install the left bolts -4- first and then the right. Always push on the joint -3- while doing this to maintain the pretension.

Screw tightening specification -4-: 1.5 Nm

- Clip the wind deflector -1- into the assembly unit -2--arrows-.
- Install the assembly unit. Refer to ⇒ U1.15 nit, Removing and Installing", page 198

# 1.10 Sun Shade, Removing and Installing

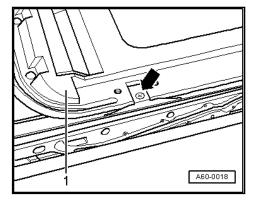
⇒ 1.10.1 , page 195

⇒ 1.10.2 , page 195

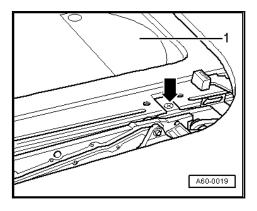
## 1.10.1 Removing

### Perform the Following:

- Remove the glass panel. Refer to ⇒ S1.4 unroof Glass Panel, Removing and Installing", page 188.
- Move the sun shade a little toward the rear.
- Remove the left and right front bolts -arrow-.



- Move the spring slider forward over the stop -1-.
- Move the sun shade forward and remove it through the roof opening.
- Remove the left and right rear bolts -arrow-.



 Move the spring slider toward the rear and remove sun shade -1-.

# 1.10.2 Installing

### Perform the Following:

Install in reverse order of removal.

Bolt tightening specification: 1 Nm

#### 1.11 Sliding/Tilting Sunroof Motor, Removing and Installing

⇒ 1.11.1 , page 196

⇒ 1.11.2 , page 196

#### 1.11.1 Removing

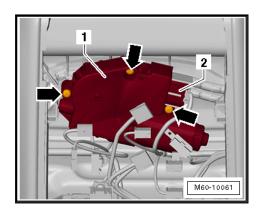
#### Perform the Following:



Note

Remove and install the sliding/tilting sunroof motor only when the glass panel is closed.

- Remove the Front Interior Lamp -W1-. Refer to ⇒ Electrical Equipment; Rep. Gr. 96; Controls; Front Interior Lamp/Reading Lamp, Removing and Installing.
- Remove the bolts -arrows- and the sliding/tilting sunroof motor -1-.



Disconnect the connector -2- from the sliding/tilting sunroof motor.

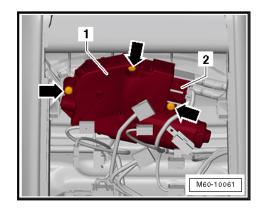
#### 1.11.2 Installing

#### Perform the Following:

Sliding/tilting sunroof motor in its neutral position.

If this is not the case, adjust the neutral position. Refer to  $\supseteq$  S1.12 unroof Motor, Adjusting Neutral Position", page 197 .

Connect the connector -2- to the sliding/tilting sunroof motor.



Install the sliding/tilting sunroof motor -1- and tighten the bolts -arrows-.

The tightening specification for the bolts -arrows-: 4 Nm

- Install the Front Interior Lamp -W1-. Refer to ⇒ Electrical Equipment; Rep. Gr. 96; Controls; Front Interior Lamp/Reading Lamp, Removing and Installing.
- Adapt the sliding/tilting sunroof motor. Refer to ⇒ S1.13 unroof Motor, Adapting", page 197.

# 1.12 Sliding/Tilting Sunroof Motor, Adjusting Neutral Position

#### Perform the Following:

- Motor is removed, connectors connected.
- Select "roof closed" with the rotary switch.
- The motor automatically runs to neutral position and is switched off.
- Install the motor in this position with sunroof closed.

# 1.13 Sliding/Tilting Sunroof Motor, Adapting



#### Note

In order for the sliding/tilting sunroof to work correctly after the sunroof motor has been removed/installed or replaced adapt the sunroof motor.

- Switch on the ignition and close the doors. If necessary, close the sliding sunroof.
- Pull the sliding/tilting sunroof control switch and hold it in that position for 10 seconds.
- The glass panel will tilt, it will open all the way to stop and then it will close.
- Keep pulling the sliding/tilting sunroof switch during the adaptation process.
- ♦ This completes the adaptation process.

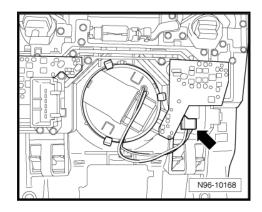
## 1.14 Automatic Rotary Switch for Sliding/Tilting Sunroof, Removing

⇒ 1.14.1 , page 197

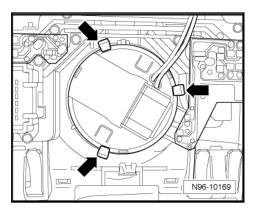
⇒ 1.14.2 , page 198

## 1.14.1 Removing

- Remove the Front Interior Lamp -W1-. Refer to ⇒ Electrical Equipment; Rep. Gr. 96; Controls; Front Interior Lamp/Reading Lamp, Removing and Installing.
- Disconnect and remove the connector -arrow-.



Open the tabs -arrows- and remove the controls for the sliding/tilting sunroof.



#### 1.14.2 Installing

## Perform the Following:

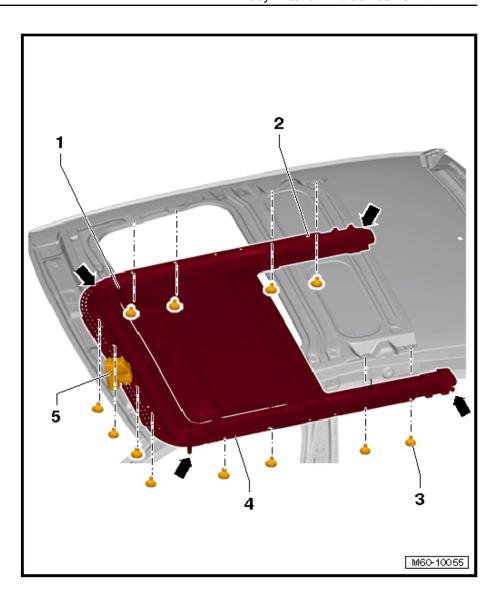
Install in reverse order of removal.

#### Assembly Unit, Removing and Instal-1.15 ling

⇒ 1.15.1 , page 198

⇒ 1.15.2 , page 199

#### 1.15.1 Removing



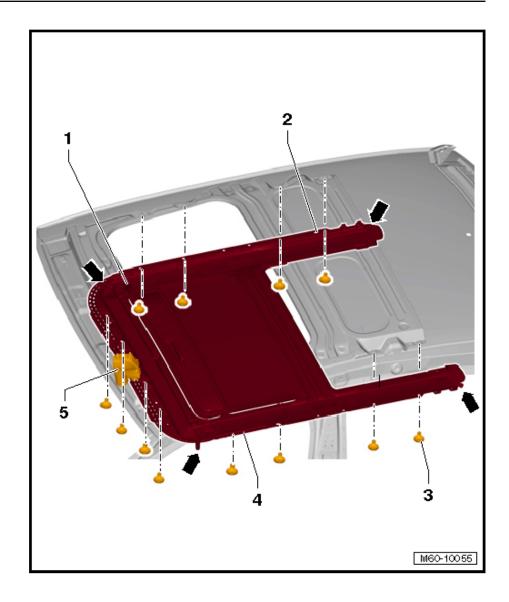
#### Perform the following:

- Lower the headliner but do not remove it from the vehicle.
   Refer to ⇒ Body Interior; Rep. Gr. 70; Roof Trim Panels.
- Remove the water drain hoses from the connections -arrows- on the assembly unit -1-.
- Disconnect the connector from the sliding/tilting sunroof motor -5-.

A second technician is required for the rest of the removal procedure.

 Remove the bolts -3- and the assembly unit -1- from the vehicle. A second technician will be needed to do this.

## 1.15.2 Installing



#### Perform the Following:

- With the help of a second technician, insert the assembly unit -1- into the roof opening.
- Line up the assembly unit -1- over the two cylindrical pins at the front right 12 mm -4- and rear left 10 mm -2- inside the

The assembly unit must not make contact with roof frame.

- Install the bolts -3- but do not tighten them.
- Check the routing of the electrical equipment wires and connectors on the roof and correct if necessary.
- Tighten the 2 bolts -3-, right front and left rear.
- Tighten the left and right bolts -3- on the assembly unit -1-.
- Tighten the front bolts -3- on the assembly unit -1-.

Bolt tightening specification -3-: 8 Nm

- Attach the water drain hoses to the connections -arrows- on the assembly unit -1-.
- Install the headliner. Refer to ⇒ Body Interior; Rep. Gr. 70; Roof Trim Panels.

#### 1.16 Water Drain Hoses, Cleaning

- ⇒ W1.16.1 ater Drain Hoses", page 201
- ⇒ W1.16.2 ater Drain Hoses", page 202

#### 1.16.1 Front Water Drain Hoses

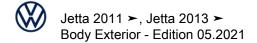


Note

For cleaning, an assisting tool is recommended, such as a speedometer driveshaft inner cable, approximately 2300 mm long.



Route the water drain hoses at front on A-pillar and end at the facing wall crossmember. They are cleaned from the sliding/tilting sunroof opening.

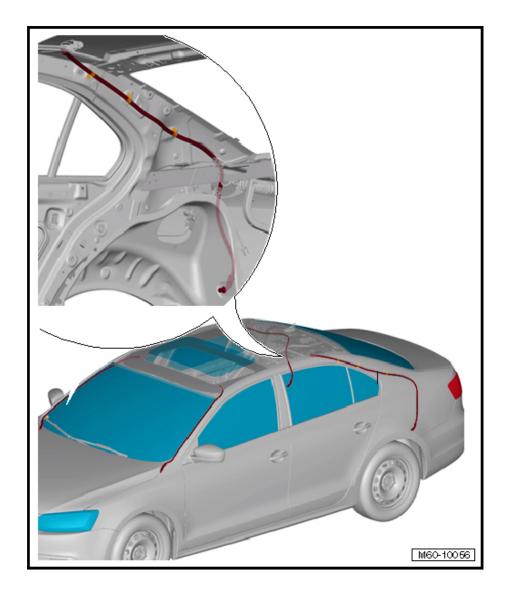


#### 1.16.2 **Rear Water Drain Hoses**



Note

For cleaning, an assisting tool is recommended, such as a speedometer driveshaft inner cable, approximately 2300 mm long.

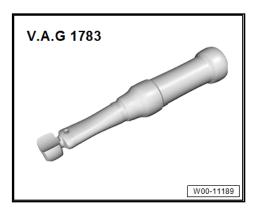


The rear water drain hoses run through the C-pillars and end in the rear wheel housings. Clean starting from the wheel housing outward, wheel housing liner must be removed to do so. Refer to  $\Rightarrow$  W1.3 heel Housing Liner, Removing and Installing", page 286

#### **Special Tools** 2

Special tools and workshop equipment required

♦ Torque Wrench 1783 - 2-10Nm -VAG1783-



# 63 – Bumpers

## 1 Front Bumper Cover

- ⇒ 1.1 , page 204
- ⇒ B1.2 umper Cover, Servicing", page 204
- ⇒ A1.3 id Bracket, Installing", page 204
- ⇒ -1.4 Front Bumper Cover", page 208
- ⇒ B1.5 umper Cover, Removing and Installing", page 209
- ⇒ B1.6 umper Cover Attachments", page 211
- ⇒ L1.7 icense Plate Holder, Installing", page 212
- ⇒ -1.8 Front Bumper Cover Guides", page 213
- ⇒ -1.9 Front Bumper Carrier", page 214

#### 1.1 Tools

### Special tools and workshop equipment required

- ◆ Torque Wrench 1783 2-10Nm -VAG1783-
- ◆ Torque Wrench 1332 40-200Nm -VAG1332-

## 1.2 Front Bumper Cover, Servicing



## Note

If the bumper cover is damaged, first determine if it is possible to repair the plastic before installing a new cover.

Refer to ⇒ General Information; Body Repairs, Body Collision Repair; Plastic Repair Methods for the description.

## 1.3 Parking Aid Bracket, Installing

- ⇒ 1.3.1 , page 204
- ⇒ 1.3.2 , page 204
- ⇒ I1.3.3 nstalling", page 205
- ⇒ C1.3.4 uring Time", page 208

### 1.3.1 Tools

#### Special tools and workshop equipment required

- ♦ Hand Cartridge Gun -VAS5155-
- ♦ PDC Holder Tool Set -VAS6614B-

#### 1.3.2 Materials

- Two-Part Plastic-Adhesive Refer to <sup>1)</sup>. <sup>1</sup> Refer to <sup>2)</sup>. <sup>2</sup> D 180 K2 A1-
- Bonding Agent for Plastic -D Refer to <sup>1)</sup>. <sup>1</sup> 822 150 A1-
- Cleaning Solution -D 009 Refer to 1). 1 401 04-

### ♦ Primer Applicator

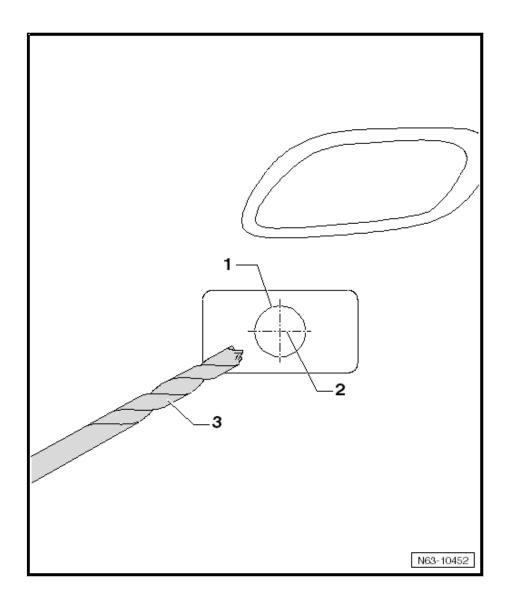
- 1) Follow the manufacturer processing instructions supplied in the packaging.
- 2) Observe the minimum curing time. Refer to <u>⇒ C1.3.4 uring Time"</u>, page 208

#### 1.3.3 Bracket, Installing



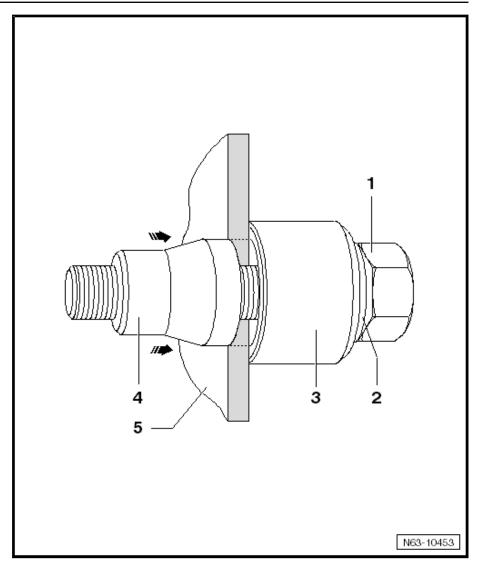
Note

After the bumper cover is painted, install the brackets.



The four markings for the bracket -1- are found on the inside of the bumper cover.

- Determine the central point -2-, if not already present.
- Drill the holes from the inside outward with the drill -3- supplied in the tool kit.



- Position the hole stamper with the bolt head -1-, washer -2and counterholder -3- on the inside of the bumper cover -5-.
- Position the iron punch -4- almost up to the bumper cover.
- Push the iron punch -4- onto the bumper cover.
- Tighten the hole stamper -1-.



## Note

The iron punch -4- must not rotate on the bumper cover paint.

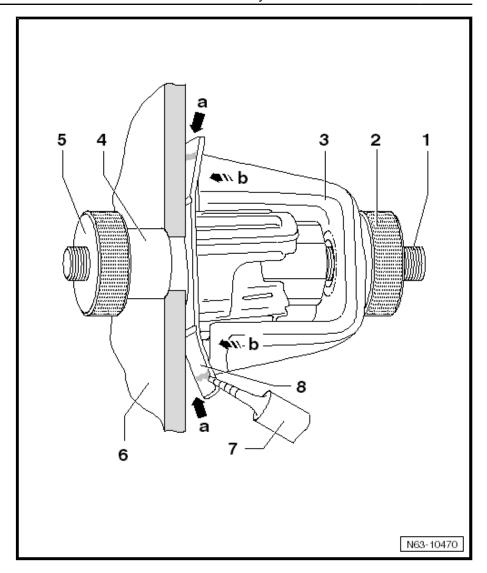
- By turning at the bolt head -1-, the iron punch -4- is pulled through the bumper cover material -5- -arrows-.
- Remove the hole stamper and stamp the next holes.
- Thoroughly clean the bumper cover and bracket with cleaning solution.



### Note

Approximately 1 cm of adhesive from the tip should not be applied.





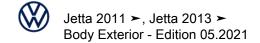
- Lightly sand the inside of the bumper cover -6- and thoroughly clean it.
- Apply primer to the bumper cover and bracket and allow to air dry for 10 minutes.
- Slide the bracket -8- onto the centering drift -1- and push it through the bumper cover -6-.
- Slide on the counterholder -4- and lightly tighten the knurled nut -5-.
- Slide on the clamping clip -3- and position the knurled nut -2-, but do not tighten.
- All brackets are prepared up to this step.



### Note

The adhesive cannot run up to the bend.

Apply the adhesive as shown in the illustration and tighten the knurled nut -2-.



Remove all of the centering drifts after the minimum curing time. Refer to <u>⇒ C1.3.4 uring Time</u>", page 208 for minimum curing time.

#### 1.3.4 Minimum Curing Time

Wait 30 minutes for the minimum curing time before performing any further work on the bumper cover and the brackets.

The bumper cover must stay in place and may not be moved during this time.

#### 1.4 Overview - Front Bumper Cover



### Note

Depending on the model version, there are minor differences in the front bumper covers.

#### 1 - Front Bumper Cover

- □ PP/EPDM material
- □ Removing and installing. Refer to ⇒ B1.5 umper Cover, Removing and Installing", page 209

#### 2 - Screw

- ☐ Tightening specification: 2.7 Nm
- Left and right
- Pointing upward

### 3 - Screw

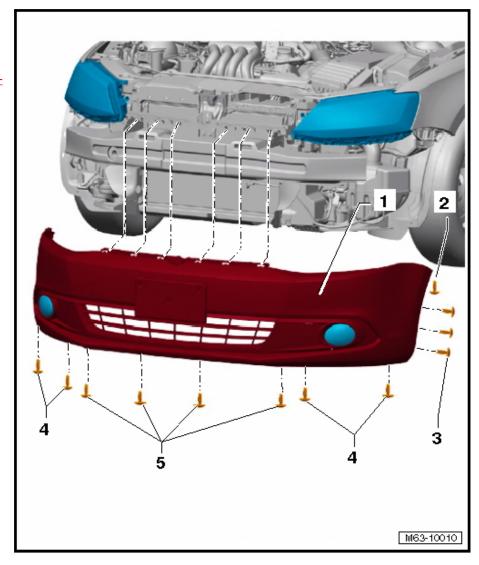
- ☐ Tightening specification: 2 Nm
- Quantity: 4 on each side
- Attached to the wheel housing liner

#### 4 - Screw

- ☐ Tightening specification: 2 Nm
- ☐ Quantity: 2 on each side
- Attached to the wheel housing liner

#### 5 - Screw

- ☐ Tightening specification: 2 Nm
- Quantity: 4
- □ Attached to the lock carrier



#### 1.5 Front Bumper Cover, Removing and Installing

⇒ 1.5.1 , page 209

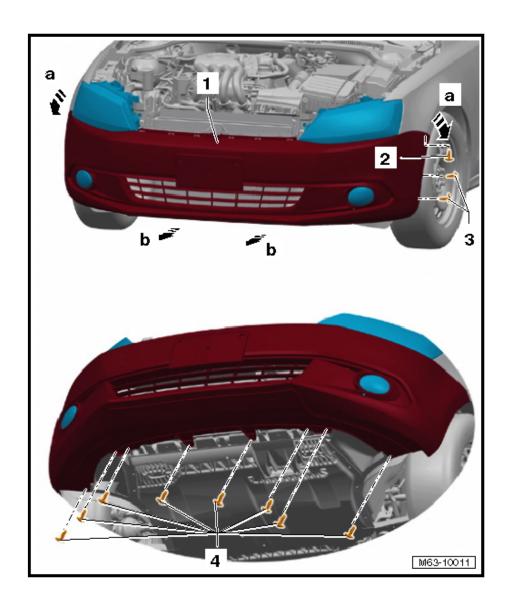
⇒ 1.5.2 , page 210

#### 1.5.1 Removing



Note

Depending on the model version, slight deviations of the front bumper cover must be considered when removing and instal-



## Perform the Following:

- Remove the radiator grille. Refer to  $\Rightarrow$  G3.2 rille, Removing and Installing", page 317 .
- Remove the bolts -2- in the wheel housing (pointing upward) on the left and right sides.
- Remove the left and right wheel housing liner bolts -3-.

Remove the bolts -4- from underneath.

A second technician is required for the rest of the removal procedure.

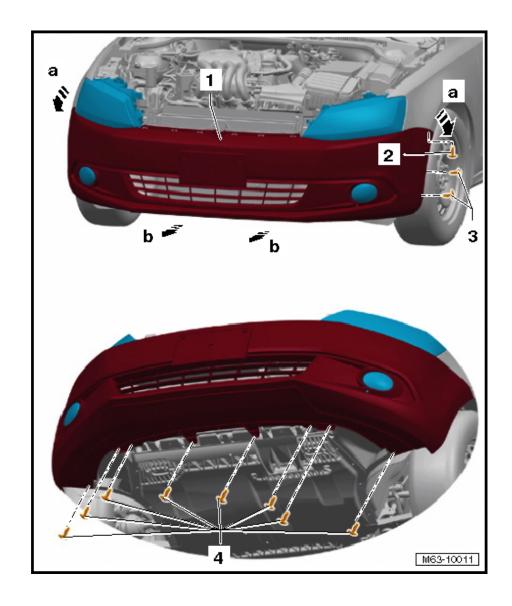
- Pull the front bumper cover -1- out of the guides on the left and right sides of the fender in direction of -arrows a-.
- Remove the front bumper cover -1- in direction of -b arrowsfrom the vehicle. A second technician is needed for this.
- Disconnect the connectors from any electrical components.

Refer to ⇒ Electrical Equipment; Rep. Gr. 94 for more information regarding the parking aid.

Refer to ⇒ Electrical Equipment; Rep. Gr. 94 for more information regarding the parallel parking assistance.

Disconnect the hose coupling on windshield washer fluid hose. Refer to ⇒ Electrical Equipment; Rep. Gr. 92.

#### 1.5.2 Installing



## Perform the Following:

Connect the hose coupling on washer fluid hose. Refer to ⇒ Electrical Equipment; Rep. Gr. 92.

- Connect the connectors of any components.
- Install the front bumper cover -1- into the center guide on the lock carrier.
- Push the front bumper cover -1- into the guides on the left and right fenders until it locks.
- Note the parallel alignment and gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body
- Tighten the bolts -2, 3 and 4-. Refer to ⇒ -1.4 Front Bumper Cover", page 208
- Install the radiator grille. Refer to ⇒ G3.2 rille, Removing and Installing", page 317.

#### 1.6 Front Bumper Cover Attachments



Note

Depending on the model version, slight deviations for attachments must be considered.

## 1 - Front Bumper Cover

- □ PP/EPDM material
- Removing and installing. Refer to ⇒ B1.5 umper Cover, Removing and Installing", page 209

#### 2 - Left Cover

- Pull forward out of the retainer
- There are different versions. Refer to the Parts Catalog for the allocation.

### 3 - Center Air Grille

- □ Remove only when bumper cover -1- has been removed
- ☐ There are different versions. Refer to the Parts Catalog for the allocation.

### 4 - Trim Molding

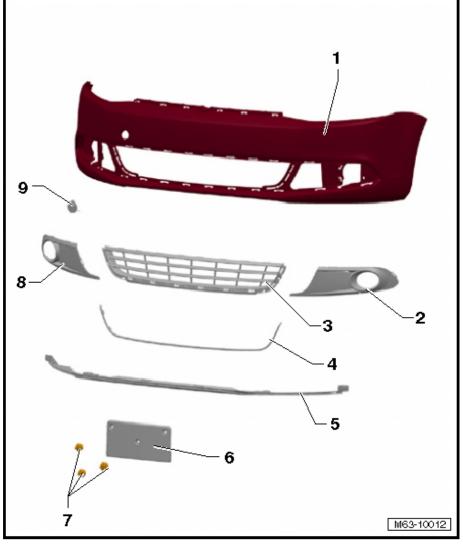
☐ Center air grille depending on the model -3-

## 5 - Spoiler

□ Remove only when bumper cover -1- has been removed

## 6 - License Plate Holder

- Not installed on all models for all markets.
- There are different ver-



## sions. Refer to the Parts Catalog for the allocation.

### 7 - Clip

☐ For attaching the license plate holder -6-

## 8 - Right Cover

- Pull forward out of the retainer
- ☐ There are different versions. Refer to the Parts Catalog for the allocation.

### 9 - Cover

☐ For the towing eye

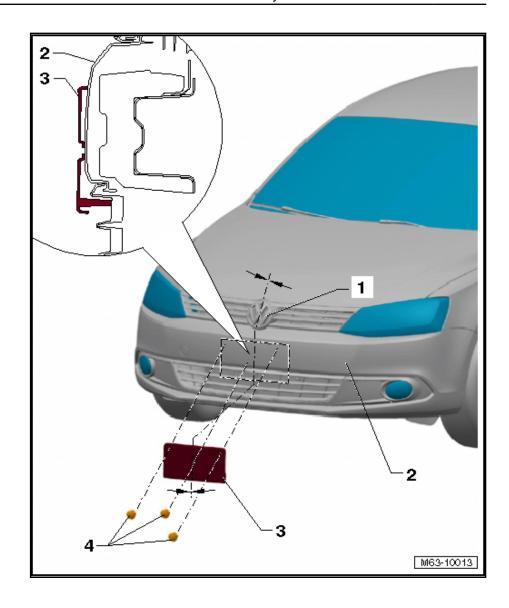
#### 1.7 Front License Plate Holder, Installing



## Note

- The license plate holder is not installed on all models for all markets.
- The license plate holder can have different sizes depending on the market.
- The contour of the bumper determines the height of the license plate holder.
- Drill 12 mm holes.





## Perform the Following:

## With Holes Present

Position the license plate holder -3- on the front bumper cover -2- and push the clips -4- in.

### With No Holes Present

- Center the license plate holder -3- on the front bumper cover -2- with the emblem -1-.
- Make a 12 mm stop depth mark and drill the holes.
- Position the license plate holder -3- on the front bumper cover -2- and push the clips -4- in.

#### **Overview - Front Bumper Cover Guides** 1.8

### 1 - Center Guide

## 2 - Side Guide

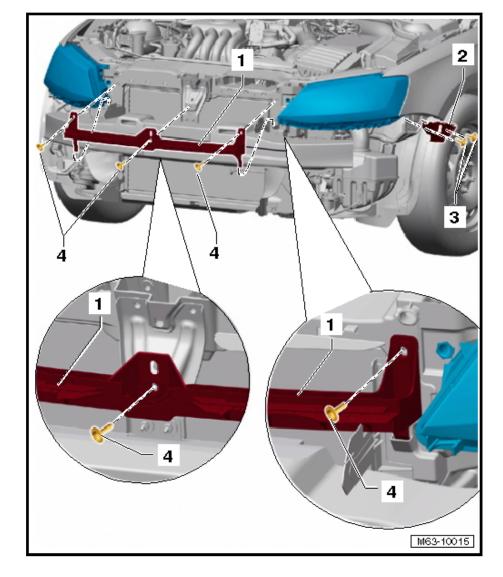
□ Left and right

## 3 - Screw

- ☐ Tightening specification: 2.7 Nm
- ☐ Quantity: 2 on each side

### 4 - Bolt

- ☐ Tightening specification: 8 Nm
- ☐ Quantity: 3



#### **Overview - Front Bumper Carrier** 1.9

## 1 - Front Bumper Carrier

## 2 - Bolt

- □ 8 Nm
- Quantity: 2 on each side

## 3 - Foam Piece

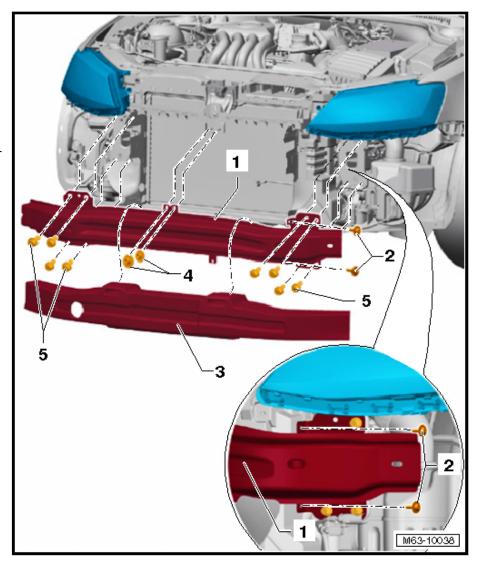
- □ Self-adhesive
- ☐ Not installed in all model versions

# 4 - Nut

- □ 8 Nm
- Quantity: 2

## 5 - Screw

- □ 60 Nm
- Quantity: 4 on each side



#### 2 Rear Bumper Cover

- ⇒ 2.1 , page 216
- ⇒ B2.2 umper Cover, Servicing", page 216
- ⇒ A2.3 id Bracket, Installing ", page 216
- ⇒ -2.4 Rear Bumper Cover", page 220
- ⇒ B2.5 umper Cover, Removing and Installing", page 221
- ⇒ -2.6 Rear Bumper Cover Guides", page 223
- ⇒ -2.7 Rear Bumper Carrier", page 224
- ⇒ -2.8 Trailer Hitch", page 225

#### 2.1 Tools

### Special tools and workshop equipment required

- ♦ Torque Wrench 1783 2-10Nm -VAG1783-
- ◆ Torque Wrench 1331 5-50Nm -VAG1331-

#### 2.2 Rear Bumper Cover, Servicing



### **Note**

If the rear bumper cover is damaged, first determine if it is possible to repair the plastic before installing a new cover.

Refer to ⇒ General Information; Body Repairs, Body Collision Repair; Plastic Repair Methods for the description.

#### 2.3 Parking Aid Bracket, Installing

- ⇒ 2.3.1 , page 216
- ⇒ 2.3.2 , page 216
- ⇒ I2.3.3 nstalling", page 217
- ⇒ C2.3.4 uring Time", page 220

#### 2.3.1 Tools

### Special tools and workshop equipment required

- ♦ Hand Cartridge Gun -VAS5155-
- ♦ PDC Holder Tool Set -VAS6614B-

#### 2.3.2 **Materials**

- Two-Part Plastic-Adhesive Refer to 3. 1 Refer to 4. 2 D 180 K2 A1-
- Bonding Agent for Plastic -D Refer to 3). 1 822 15Ŏ AĬ-
- Cleaning Solution -D 009 Refer to 3). 1 401 04-

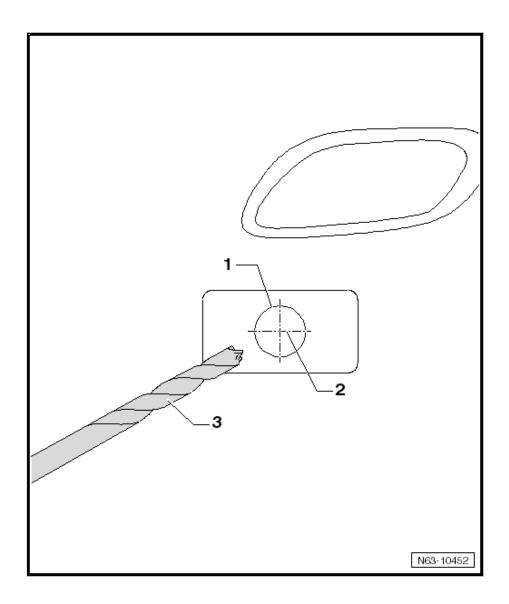
- ♦ Primer Applicator
- 3) Follow the manufacturer processing instructions supplied in the packaging.
- 4) Observe the minimum curing time. Refer to <u>⇒ C2.3.4 uring Time"</u>, page 220

#### 2.3.3 Bracket, Installing



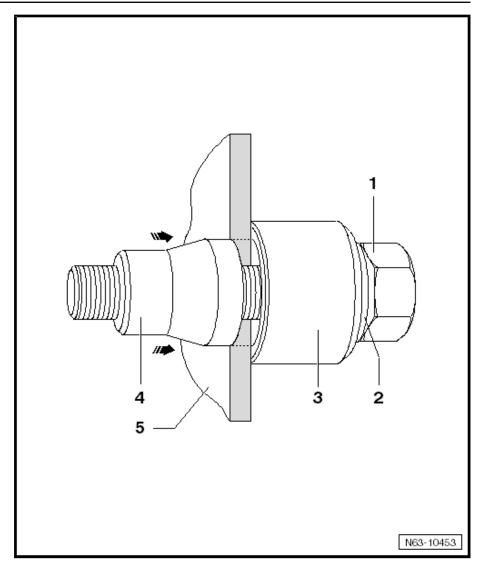
Note

After the bumper cover is painted, install the brackets.



The four markings for the bracket -1- are found on the inside of the bumper cover.

- Determine the central point -2-, if not already present.
- Drill the holes from the inside outward with the drill -3- supplied in the tool kit.



- Position the hole stamper with the bolt head -1-, washer -2and counterholder -3- on the inside of the bumper cover -5-.
- Position the iron punch -4- almost up to the bumper cover.
- Push the iron punch -4- onto the bumper cover.
- Tighten the hole stamper -1-.



## Note

The iron punch -4- must not rotate on the bumper cover paint.

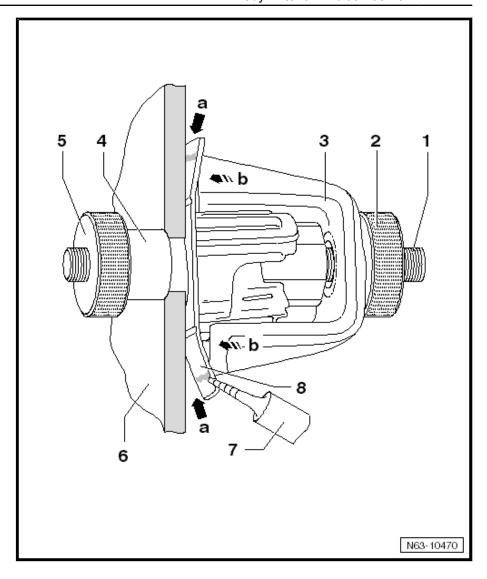
- By turning at the bolt head -1-, the iron punch -4- is pulled through the bumper cover material -5- -arrows-.
- Remove the hole stamper and stamp the next holes.
- Thoroughly clean the bumper cover and bracket with cleaning solution.



## Note

Approximately 1 cm of adhesive from the tip should not be applied.





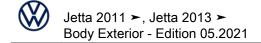
- Lightly sand the inside of the bumper cover -6- and thoroughly clean it.
- Apply primer to the bumper cover and bracket and allow to air dry for 10 minutes.
- Slide the bracket -8- onto the centering drift -1- and push it through the bumper cover -6-.
- Slide on the counterholder -4- and lightly tighten the knurled nut -5-.
- Slide on the clamping clip -3- and position the knurled nut -2-, but do not tighten.
- All brackets are prepared up to this step.



## Note

The adhesive cannot run up to the bend.

Apply the adhesive as shown in the illustration and tighten the knurled nut -2-.



Remove all of the centering drifts after the minimum curing time. Refer to <u>⇒ C2.3.4 uring Time</u>", page 220 for minimum curing time.

#### 2.3.4 Minimum Curing Time

Wait 30 minutes for the minimum curing time before performing any further work on the bumper cover and the brackets.

The bumper cover must stay in place and may not be moved during this time.

#### 2.4 Overview - Rear Bumper Cover



## Note

Depending on model version, there are minor differences in the rear bumper covers.

### 1 - Center Guide

## 2 - Rear Bumper Cover

- □ PP/EPDM material
- □ Removing and installing. Refer to ⇒ B2.5 umper Cover, Removing and Installing", page 221

### 3 - Screw

- ☐ Tightening specification: 2.7 Nm
- Quantity: 1 on each side

## 4 - Screw

- ☐ Tightening specification: 2.7 Nm
- □ Quantity: 3

## 5 - Screw

- ☐ Tightening specification: 2.7 Nm
- Quantity: 1 on each side

## 6 - Screw

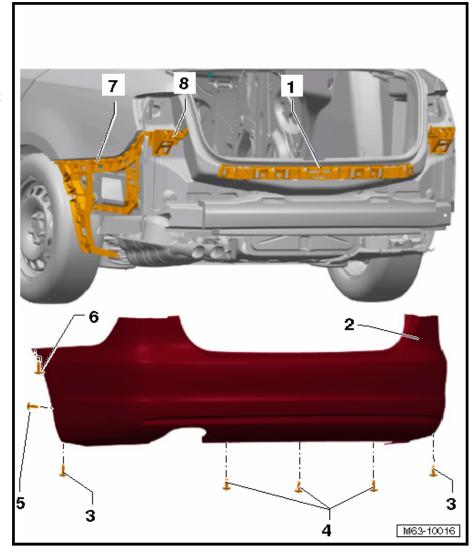
- ☐ Tightening specification: 2.7 Nm
- Quantity: 1 on each side

### 7 - Side Guide

Left and right

## 8 - Retaining Bracket

□ Left and right



### Rear Bumper Cover, Removing and In-2.5 stalling

⇒ 2.5.1 , page 221

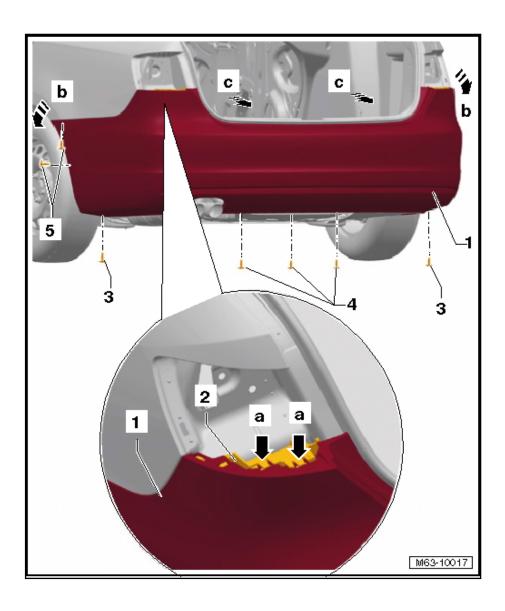
⇒ 2.5.2 , page 222

#### 2.5.1 Removing



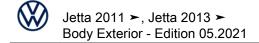
Note

Slight differences may have to be made to removal and installation procedures of rear bumper cover, depending upon equipment installed in vehicle.



### Perform the Following:

- Remove the side panel tail lamps. Refer to  $\Rightarrow$  Electrical Equipment; Rep. Gr. 94; Tail Lamps.
- Loosen the wheel housing liner from the retainer in the bumper cover area. Refer to  $\Rightarrow$  W1.5 heel Housing Liner, Removing and Installing", page 289 .



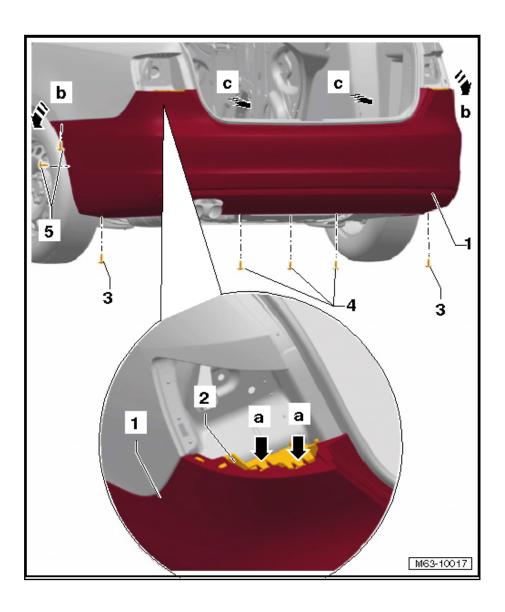
- Remove the bolts -5- inside the wheel housing on the left and right.
- Remove the lower bolts -3 and 4- from underneath.
- Remove the bolts that attach the right rear underbody trim panel to the bumper cover, if equipped.

A second technician is required for the rest of the removal procedure.

- Remove the rear bumper cover -1- out of the guides on the left and right sides of the side panel in direction of -arrows b-.
- Open the catches -arrows a- on the left and right retaining brackets -2-.
- Remove the rear bumper cover -1- in direction of -c arrowsfrom the vehicle. A second technician is needed for this.
- Disconnect the connectors from any electrical components.

Refer to  $\Rightarrow$  Electrical Equipment; Rep. Gr. 94 for more information regarding the parking aid.

#### 2.5.2 Installing



### Perform the Following:

- Connect the connectors of any components.
- Guide the rear bumper cover -1- parallel onto the guide on the vehicle until the rear bumper cover -1- engages at the left and right retaining brackets -2- -a arrows-.
- Install the rear bumper cover -1- into the left and right guides on the side panel until is locks.
- Pay attention to the parallel alignment and the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00; Body Gap Dimensions; Body, Rear.
- Tighten the bolts -3, 4 and 5-. Refer to ⇒ -2.4 Rear Bumper Cover", page 220
- Install the bolts that attach the right rear underbody trim panel to the bumper cover and tighten them to 2.7 Nm, if equipped.
- Secure the wheel housing liner in the bumper cover area again. Refer to ⇒ W1.5 heel Housing Liner, Removing and Installing", page 289
- Install the side panel tail lamps. Refer to ⇒ Electrical Equipment; Rep. Gr. 94; Tail Lamps.

#### 2.6 Overview - Rear Bumper Cover Guides

### 1 - Center Guide

## 2 - Screw

- ☐ Tightening specification: 4 Nm.
- □ Quantity: 4

### 3 - Screw

- ☐ Tightening specification: 4 Nm.
- ☐ 2 or 3 on each side (depending on the model)

### 4 - Screw

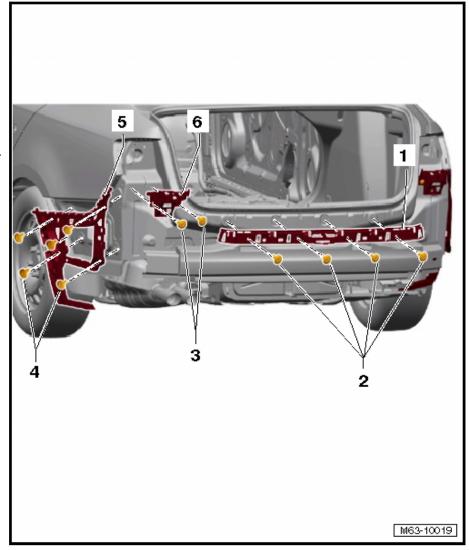
- ☐ Tightening specification: 4 Nm.
- ☐ Quantity: 5 on each side

## 5 - Side Guide

□ Left and right

## 6 - Retaining Bracket

□ Left and right



#### Overview - Rear Bumper Carrier 2.7

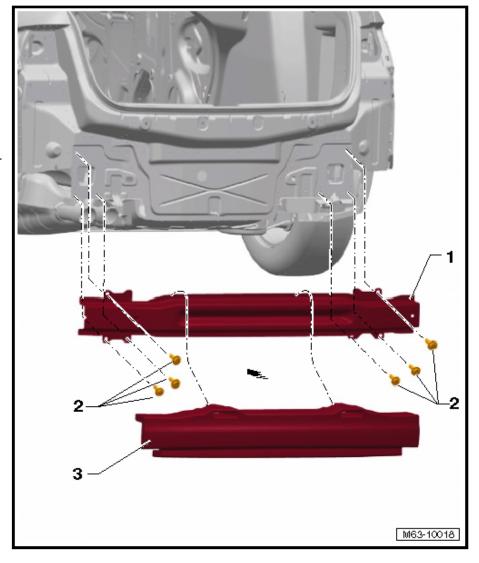
## 1 - Rear Bumper Carrier

## 2 - Bolt

- ☐ Tightening specification: 20 Nm
- Quantity: 3 on each side

## 3 - Foam Piece

- □ Self-adhesive
- Not installed in all model versions



#### 2.8 Overview - Trailer Hitch



## Note

- The tightening specifications only apply to factory-installed trailer hitches.
- If a different trailer hitch is installed, ask the manufacturer for the tightening specifications.
- Refer to ⇒ Wiring diagrams, Troubleshooting & Component locations for more information on the Electrical System.



### 1 - Trailer Hitch

- With removable ball head
- Rear Bumper Cover, Removing. Refer to <u>⇒</u> B2.5 umper Cover, Removing and Installing", page 221

### 2 - Bolt

- ☐ Tightening specification: 12 Nm.
- Sealing threaded connections
- Quantity: 1 on the left
- ☐ 1 or 2 on the right side (depending on the model)



WARN-**ING** 

The bolts -2- are sealing threaded connections and prevent exhaust gas from getting into the passenger compartment.

These bolts must always be installed.

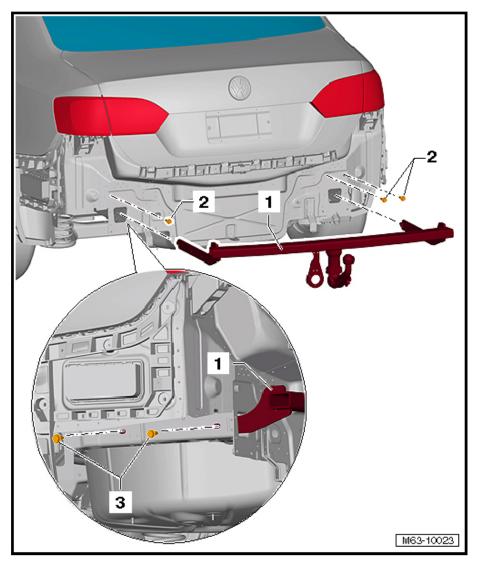
### 3 - Bolt

- ☐ Tightening specification: 50 Nm + 90° additional turn
- ☐ Quantity: 2 on each side



WARN-**ING** 

Bolts -3- must always be replaced after loosening.



#### 3 **Special Tools**

## Special tools and workshop equipment required

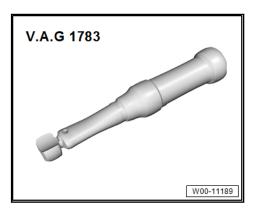
♦ Torque Wrench 1331 5-50Nm -VAG1331-



◆ Torque Wrench 1332 40-200Nm -VAG1332-

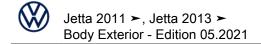


♦ Torque Wrench 1783 - 2-10Nm -VAG1783-



♦ Hand Cartridge Gun -VAS5155-





PDC Holder Tool Set -VAS6614B-



### 64 – Glass, Window Regulators

## Flush Bonded Windows

- ⇒ 1.1 , page 229
- ⇒ 1.2 , page 229
- ⇒ S1.3 ervicing", page 230
- ⇒ -1.4 Windshield", page 230
- ⇒ R1.5 emoving", page 231
- ⇒ I1.6 nstalling", page 233
- ⇒ -1.7 Rear Window", page 234
- ⇒ R1.8 ear Window, Removing", page 234
- ⇒ R1.9 ear Window, Removing", page 236
- ⇒ W1.10 indow, Installing", page 237
- ⇒ W1.11 indow, Preparing for Glazing", page 238
- ⇒ W1.12 indow Without Pre-Coating, Preparing for Glazing", page 238
- ⇒ F1.13 lange, Preparing for Glazing", page 239
- ⇒ I1.14 nstructions", page 240
- ⇒ C1.15 uring Time", page 241
- ⇒ D1.16 amage, Repairing", page 241
- ⇒ S1.17 ealant, Removing from Window", page 241

#### 1.1 **Tools**

### Special tools and workshop equipment required

- ◆ Cartridge Heater -VAG1939-
- ◆ Double Suction Lifter -VAG1344-
- Bonded Window Tool Kit -VAG1351-
- Flush Bonded Window Kit -VAG1474B- or Cutting Tool for Bonded Windows -VAS6452-
- Window Cutter -VAG1561A-
- ♦ Window Cutter Offset Blade (2 pc.) -VAG1561/2-
- ♦ Window Cutter Scraper -VAG1561/8-
- ♦ Window Cutter Blade (2 pc.) -VAG1561/19-
- ◆ Cartridge Gun -VAG1628-
- ♦ Window Removing Kit -VAG1755-
- ◆ Gauge Gap Adjustment -3371-
- ◆ Double Cartridge Gun -VAS5237-

#### 1.2 **Materials**

- ◆ Two-Part Window Adhesive -DA 004 600 A2- 1) 2) 3)
- ◆ One-Part Window Adhesive -DH 009 100 A2 1) 2) 4) 5)
- Activator -D 181 801 A1- 1)

Glass Primer/Paint Primer -D 009 200 02- 1)

Cleaning Solution -D 009 401 04 - 1)

**Primer Applicator** -D 009 500 25- 1)

Adhesive Remover -D 002 000 10- 1)

Cutting wire -357 853 999 A-

- 1) Follow the manufacturer processing guidelines supplied in the packaging.
- <sup>2)</sup> Note the minimum curing time ⇒ C1.15 uring Time", page
- 3) To apply this material, the -VAS5237- must be used.
- 4) Warm up according to manufacturer's instructions using the -VAG1939A-.
- 5) Small 180 ml cartridge for sealing and/or when a 400 ml double cartridge is not enough.

#### 1.3 Windshield, Servicing

## Special tools and workshop equipment required

♦ Windscreen Repair Set -VAS6092-



### Note

- If the windshield is damaged, first determine if it is possible to repair the glass.
- Damaged windshields can be repaired with the -VAS6092-.
- The damage may not exceed a certain size and location.
- Work instructions are included with every window repair kit.

#### 1.4 Overview - Windshield



#### 1 - Windshield

- □ Removing. Refer to ⇒ R1.5 emoving", page
- □ Installing. Refer to ⇒ 11.6 nstalling", page

### 2 - PUR Adhesive Sealant

- Bead diameter: -Width b- = 7.5 mm -Height a- Height = 12 mm (including the pre-coating, residual material on the window and the window flange)
- Minimum Curing Time. Refer to ⇒ C1.15 uring Time", page 241

## 3 - Body Flange

☐ Paint Damage, Repairing. Refer to ⇒ D1.16 amage, Repairing", page 241

### 4 - Gap Dimension

Must be the same on the left and right sides

## 5 - Gap Dimension

■ Must be even

## 6 - Window Adjuster

□ -443 845 631 A-

## 7 - Binding Profile

☐ Is a part of the windshield

## 8 - Plenum Chamber Cover

- ☐ May only be pulled out of the retainer by hand.
- □ Removing and installing. Refer to ⇒ C3.2 hamber Cover, Removing and Installing", page 21.

## 9 - Adhesive Bead End

Apply the adhesive bead in this area

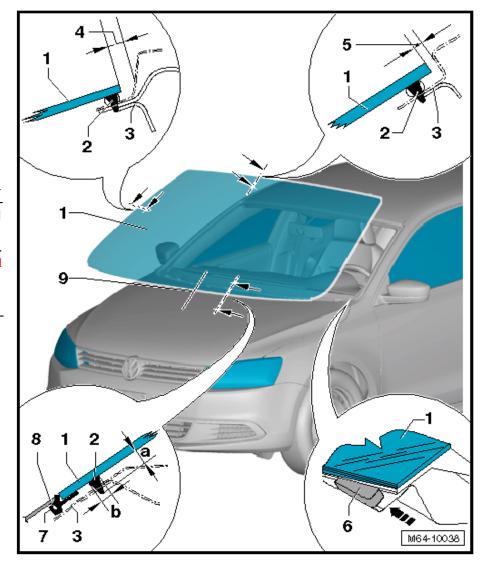
#### 1.5 Windshield, Removing

## Special tools and workshop equipment required

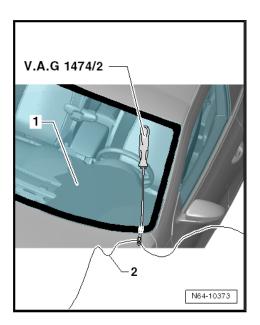
- ♦ Cover for Audi A4 Dash Panel -VAG1474/8-
- ◆ Flush Bonded Window Kit Awl -VAG1474/2-
- Bonded Window Tool Kit Pull Handle -VAG1351/1-
- ♦ Window Reel Device -VAG1654A-

## Perform the Following:

Remove left and right upper A-pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.

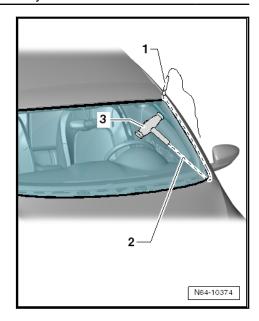


- Remove the left and right sun visors. Refer to ⇒ Body Interior; Rep. Gr. 68; Equipment; Sun Visor, Removing and Installing.
- Remove the interior rearview mirror. Refer to ⇒ Body Interior; Rep. Gr. 68; Interior Rearview Mirror.
- Remove the headliner near the windshield. Refer to ⇒ Body Interior; Rep. Gr. 70; Roof Trim Panels.
- The headliner can now be lowered far enough so that windshield can be cut out without damaging headliner.
- If equipped, remove the drip rail. Refer to ⇒ R5.1 ail", page
- Remove the plenum chamber cover. Refer to ⇒ C3.2 hamber Cover, Removing and Installing", page 21
- Install the -VAG1474/8- -1- between the windshield and the instrument panel.

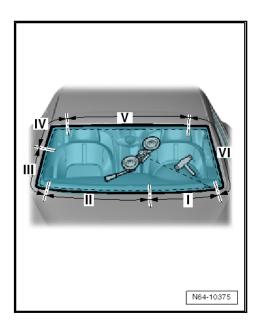


- Pull the cutting wire -2- with the -VAG1474/2- through the adhesive inside the vehicle interior.
- Secure the cutting wire end from being pulled out using the -VAG1351/1- -3-.





- Insert the cutting cord -2- into window flange using small tube -1-.
- Lay the cutting cord around windshield.
- Make sure that cutting thread is inserted under windshield at corners.
- Secure the second cord end to -VAG1654A-.

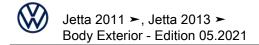


- Set -VAG1654A- into "Position I".
- Move -VAG1654A- according to position required and cut the windshield free.
- While cutting free, press cutting cord against window using plastic wedge in order to have clearance from window flange and instrument cluster.

#### 1.6 Windshield, Installing

Prepare the undamaged window for glazing. Refer to ≥ W1.11 indow, Preparing for Glazing", page 238.

Prepare the new window glass for glazing. Refer to ⇒ W1.12 indow Without Pre-Coating, Preparing for Glazing", page 238.



Prepare the body flange for glazing. Refer to ⇒ F1.13 lange, Preparing for Glazing", page 239

Installation Instructions. Refer to ⇒ I1.14 nstructions", page

Minimum Curing Time. Refer to <u>⇒ C1.15 uring Time</u>", page <u>241</u> .

#### 1.7 Overview - Rear Window

### 1 - Rear Window

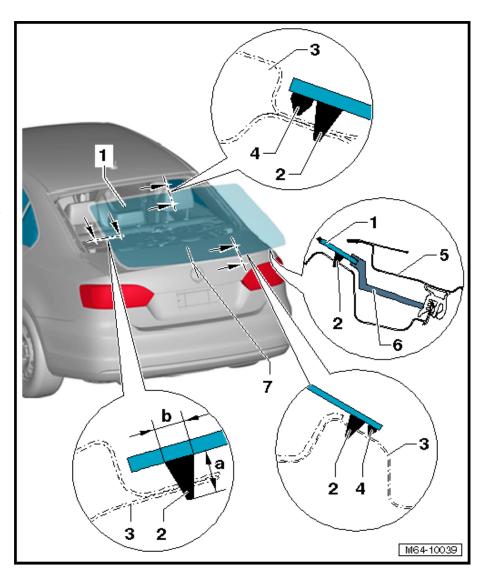
- Removing. Refer to <u>⇒</u> R1.8 ear Window, Removing", page 234
- □ Installing. Refer to ⇒ W1.10 indow, Installing", page 237

#### 2 - PUR Adhesive Sealant

- Bead diameter: -Width b- = 6.5 mm-Height a- Height = 10 mm (including the precoating, residual material on the window and the window flange)
- Minimum Curing Time. Refer to  $\Rightarrow$  C1.15 uring Time", page 241
- 3 Body Flange
- 4 Spacer
- 5 Rear Lid
- 6 Window Adjuster

## 7 - Adhesive Bead End

■ Apply the adhesive bead in this area



#### 1.8 **Undamaged Rear Window, Removing**

### Special tools and workshop equipment required

- Flush Bonded Window Kit Awl -VAG1474/2-
- Flush Bonded Window Kit Wedge (5 pc.) -VAG1474/5-
- Flush Bonded Window Kit Cover for Audi 80/92> Dash Panel -VAG1474/8-
- Bonded Window Tool Kit Pull Handle -VAG1351/1-
- Window Reel Device -VAG1654A-

### Perform the Following:

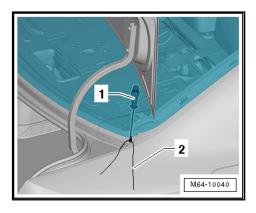
- Remove left and right upper C-pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels.
- Remove the rear shelf. Refer to ⇒ Body Interior; Rep. Gr. 70; Vehicle Interior Trim Panels; Rear Shelf, Removing and Installing.
- Remove the headliner near the rear window. Refer to ⇒ Body Interior; Rep. Gr. 70; Roof Trim Panels.



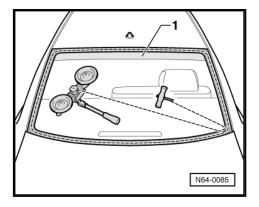
### Note

If windshield is to be used again, make sure that electrical connections for windshield heating are not damaged.

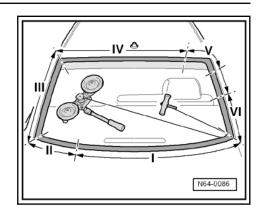
- Disconnect the connections for the heated rear window and window antennas.
- Pull the cutting wire -2- inside through the adhesive using with the -VAG1474/2- -1-.



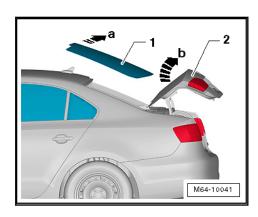
Secure the cutting wire end with the -VAG1351/1- to prevent it from being pulled out.



- Lay the cutting wire around the rear window and guide the second wire end toward the inside.
- Secure the end of the cutting wire on the -VAG1654A-.
- Install the -VAG1474/8- -1- carefully between the rear window and headliner.
- Position the -VAG1654A- as shown.



- Move the -VAG1654A- according to position required and cut the rear window free.
- While cutting free, press cutting cord against window using plastic -VAG1474/5- in order to have clearance from window flange.
- To remove the rear window -1- open the rear lid -2- approximately 45°.



Remove the rear window -1- from the body flange in direction of -arrow a- and move it under the rear lid in direction of -arrow b-.

#### 1.9 Damaged Rear Window, Removing

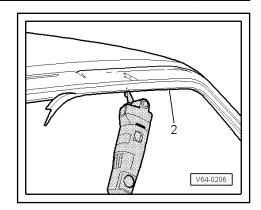
## Special tools and workshop equipment required

- Window Cutter -VAG1561A-
- Window Cutter -VAG1561-

### Perform the following:

- Protect the body and vehicle interior from glass splinters.
- Remove the glass pieces up to the adhesive sealant.
- Remove the connections for the window defogger and an-
- Bond the flange -2- all around with fabric reinforced adhesive tape.





Cut the adhesive (with glass residue) in the window opening with the -VAG1561A- and the -VAG1561-.



### **WARNING**

Always wear protective eyewear and leather gloves.

#### 1.10 Rear Window, Installing

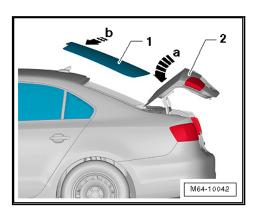
## Perform the Following:

Prepare the undamaged window for glazing. Refer to ≥ W1.11 indow, Preparing for Glazing", page 238

Prepare the new window glass for glazing. Refer to <u>⇒ W1.12 in-</u> dow Without Pre-Coating, Preparing for Glazing", page 238.

Prepare the body flange for glazing. Refer to ⇒ F1.13 lange, Preparing for Glazing", page 239

Once all the preparation work for glazing the rear window -1is complete, open the rear lid -2- approximately 45°.



- First guide the rear window -1- under the rear lid -2- in direction of -arrow a-.
- Then place the rear window -1- on the body flange in its installed position in direction of -arrow b-.

Installation Instructions. Refer to ⇒ I1.14 nstructions", page

Minimum Curing Time. Refer to ⇒ C1.15 uring Time", page

#### 1.11 **Undamaged Window, Preparing for** Glazing

⇒ B1.11.1 ead, Cutting", page 238

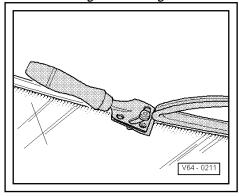
#### 1.11.1 Adhesive Bead, Cutting

Perform the Following:



Note

When reusing an undamaged window, cut the remaining adhesive sealant back to 1 to 2 mm shortly before rebonding. Do not damage the primer and ceramic coating while doing so.



The remaining material serves as a base for the new adhesive sealant being applied.



### **WARNING**

Do not prime or use a cleaning solution on the adhesive surface. Keep the adhesive surface free of dirt and grease.

Exception: if bonding is not performed immediately after cutting back, the remaining material must be activated using the Activator - D 181 801 A1-.

#### 1.12 New Window Without Pre-Coating, Preparing for Glazing

## Perform the following:

All windows as replacement parts are not pre-coated.



## Note

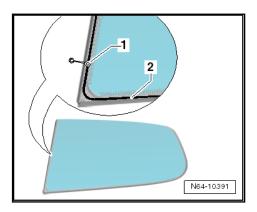
- The application area for the adhesive bead is not pre-coated and not primed.
- The sealing lip is a component of a new windshield.
- Clean an area 20 mm wide all around the window edge using the Cleaning Solution -D 009 401 04-.
- Then dry the window edge with a lint-free cloth.



## **WARNING**

The ceramic coating on the glass is not a glass/paint primer. It must be primed before the application of adhesive sealant! Use only glass/paint primer D 009 200 02.

Apply primer -2- uniformly in one stroke using Applicator -D 009 500 25- -1-.



Drying time is approximately 10 minutes

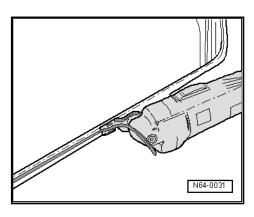
#### 1.13 Body Flange, Preparing for Glazing

Special tools and workshop equipment required

◆ U-Shape Scraper -VAG1561/3-

## Perform the Following:

Cut back the remaining material on the body flange using the -VAG1561/3-, do not remove all residue under any circumstance.



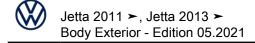


The remaining material serves as a base for the new adhesive sealant being applied. Keep the adhesive surfaces free of dirt and grease.



### **WARNING**

Activator must not come into contact with the paint or the paint will be damaged.



Exception: if bonding is not performed immediately after cutting back, the remaining material must be activated using the Activator - D 181 801 A1-.

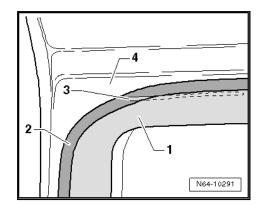
If the body flange is being repaired or partially replaced, the corresponding area must be cleaned and primed again before painting.



## Note

It is possible that the laser weld seam does not lie in the area of the adhesive bead. In this case, the open weld seam must be sealed with window adhesive before bonding the window.

If the adhesive -1- does not cover the laser weld seam -3- on the sheet metal flange -4-, then coat it -3- with Glass/Paint Primer -D 009 200 02- -3-. Then fill the laser weld seam with the Window Adhesive -DH 009 100 A2- -1-.



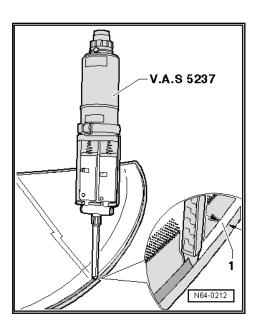
#### 1.14 Installation Instructions

## Special tools and workshop equipment required

- ◆ Double Cartridge Adhesive Gun -VAS5237-
- Double Suction Lifters -VAG1344-

### Perform the Following:

- Apply adhesive all the way around at a right angle to the glass.





## WARNING

Window must be installed within 10 minutes, otherwise bonding properties of window adhesive will be impaired.

Do not apply adhesive bead too thickly and do not press windows too firmly on to body flange. Since windows no longer have a sealing lips, surplus adhesive can be seen in the gap area.

- Using two -VAG1344-, insert the window glass into the window opening, center it and press it in up to the spacer.
- Reapply any stickers (for example, for airbag).

#### 1.15 Minimum Curing Time



### WARNING

There are special requirements for replacing bonded windows. This includes, for example, that a newly bonded windshield is safe for vehicle operation and also in case of an accident after a specified minimum curing time.

The minimum curing time for the Two-Part Window Adhesive -DA 004 600 A2 -and One-Part Window Adhesive -DH 009 100 A2- is 3 hours for all windows.

Minimum curing time means the time from when the window is bonded to when the vehicle is put back into use. During this time, the vehicle must be on a level surface at room temperature (at least 15 °C (59 °F)).



## **WARNING**

The vehicle is operationally ready only after the minimum curing time has elapsed.

#### 1.16 Paint Damage, Repairing

If there is paint damage, recreate the paint structure according to guidelines in the  $\Rightarrow$  Paint; Rep. Gr. 00

#### 1.17 Adhesive Sealant, Removing from Window

### Perform the following:

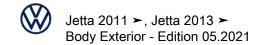
Adhesive Remover -D 002 000 10- is the recommended cleaning solution. The safety precautions must be adhered to when working.



### WARNING

When cleaning from the vehicle interior, the window just installed must never be pressed outward.

Clean the painted surface with a dry cloth. Clean any remaining dirt with Adhesive Removal Solution -D 002 000 10-.



Clean the plastic trim: let the adhesive harden for approximately one hour and then peel it off.

#### 2 **Front Door Window**

- ⇒ 2.1 , page 243
- ⇒ -2.2 Front Door Window", page 243
- ⇒ W2.3 indow, Removing and Installing", page 244
- ⇒ R2.4 egulator Motor, Removing and Installing", page 250
- ⇒ R2.5 egulator, Removing and Installing", page 256
- ⇒ G2.6 uide, Removing and Installing", page 258

#### 2.1 **Tools**

Special tools and workshop equipment required

◆ Torque Wrench 1783 - 2-10Nm -VAG1783-

#### 2.2 Overview - Front Door Window



Note

The illustration shows the right side. The left side is identical.

### 1 - Clip

### 2 - Door Window

Removing and instal-W2.3 indow, Removing and Installing", page <u> 244</u> .

### 3 - Front Door

## 4 - Window Regulator

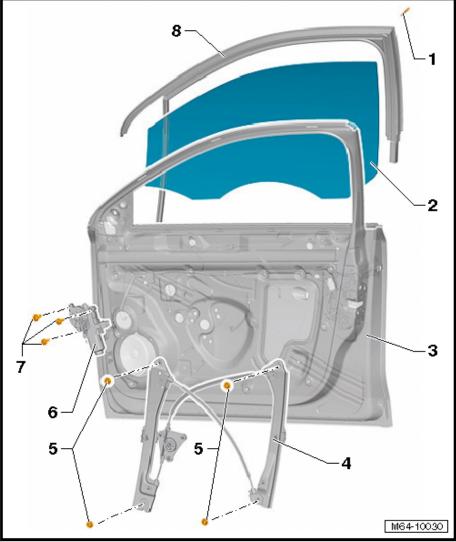
□ Removing and installing. Refer to ⇒ R2.5 egulator, Removing and Installing", page 256

#### 5 - Nut

- ☐ Tightening specification: 8 Nm
- Quantity: 4

### 6 - Window Regulator Motor

- Removing and Installing, High Equipment (AW1). Refer to ≥ R2.4.1 egulator Motor, Removing and Installing, High Equipment AW1", page 250
- ☐ Removing and Installing, Low Equipment (AW0). Refer to ⇒ R2.4.2 egulator Motor, Removing and Installing, Low Equipment AW0", page 253



#### 7 - Screw

- ☐ High equipment (AW1): 3 Nm
- □ Low equipment (AW0): 4 Nm, note the tightening sequence. Refer to ⇒ R2.4.2 egulator Motor, Removing and Installing, Low Equipment AW0", page 253.

### 8 - Window Guide

Removing and installing. Refer to ⇒ G2.6 uide, Removing and Installing", page 258.

#### 2.3 Door Window, Removing and Installing

⇒ 2.3.1 , page 244

⇒ 2.3.2 , page 246

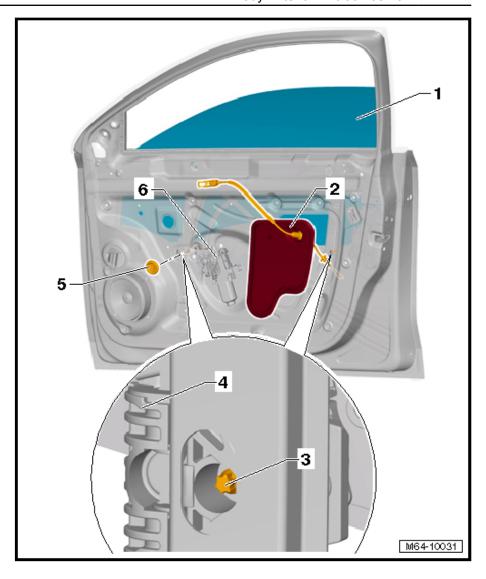
#### 2.3.1 Removing



Note

The following describes the removal and installation of the right door window. Removing and installing the left door window is identical.





### Perform the Following:

- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the cover -2-. Refer to <u>⇒ C2.3 over, Removing and</u> Installing", page 101.
- Pry out the cap -5-.
- Lower the door window -1- until the clamping screws -3- in the door window are accessible.



### Note

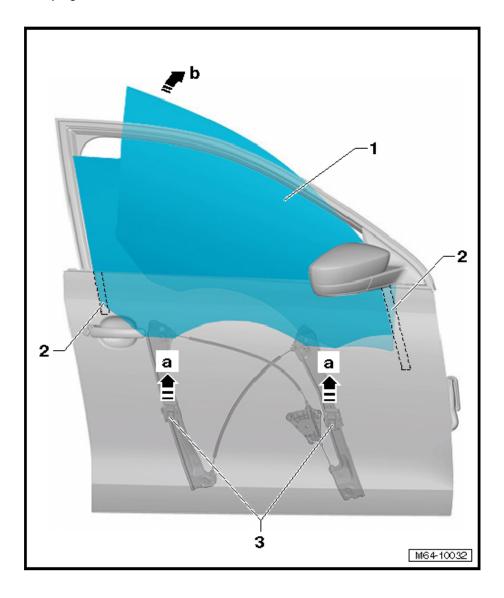
- ♦ If it is not possible to do this because of a window regulator motor -6- malfunction, then remove the motor. Refer to  $\Rightarrow$  R2.4 egulator Motor, Removing and Installing", page 250.
- Then the door window can be moved to the necessary position.



### Caution

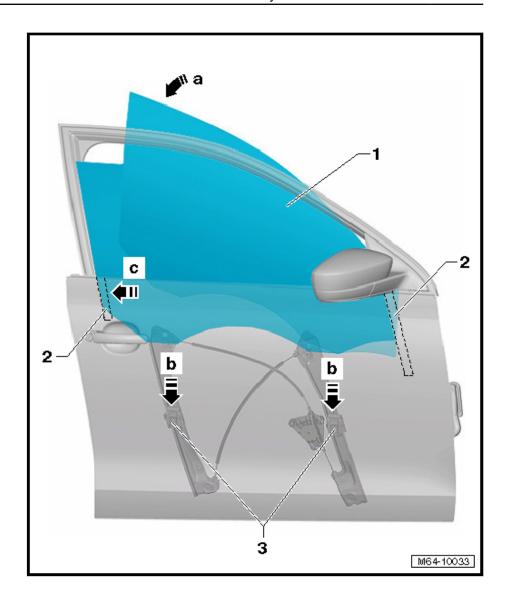
Loosen the clamping screw -3- by turning it to the right.

Turn the clamping screw -3- to the right to loosen it (do not remove it) and separate the clamping brackets -4-.



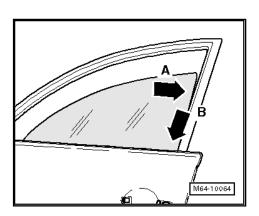
- Remove the door window -1- upward out of the clamping brackets -3- in direction of -a arrows-.
- Lift the rear door window -1- and remove it in from the window guides -2- in direction of -arrow b-.

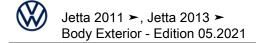
#### Installing 2.3.2



## Perform the Following:

- Install the door window -1- into the window guides -2- in direction of -arrow a-.
- Insert the door window into the B-pillar window guide -arrow A- and then push it all the way into the clamping bracket -arrow B-.



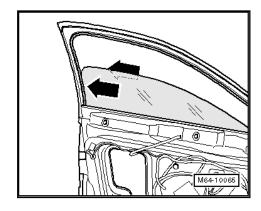




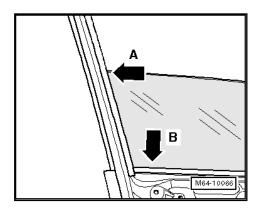
### Note

Make sure the door window is inserted correctly in the window guide -arrow A-.

Push the door window on the B-pillar with both hands and all the way into the window guide -arrows-.



Push the door window down with both hands -arrow B-.

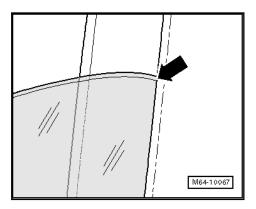




## Note

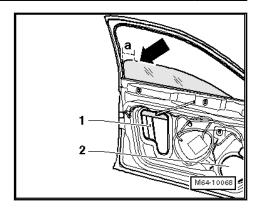
Always push the door window into the B-pillar window guide -arrow A- at the same time.

Make sure the door window fits securely in the B-pillar window guide -arrow-.



Turn the clamping screw -1- (rear clamping screw) to the left to tighten it; tightening specification 8 Nm.







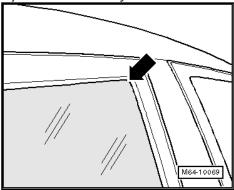
## Note

- ♦ Push the door window down -arrow- continually while tightening the screw.
- Distance -a- = press down 12 cm to the B-pillar
- Turn the clamping screw -2- (front clamping screw) to the left to tighten it; tightening specification 8 Nm.

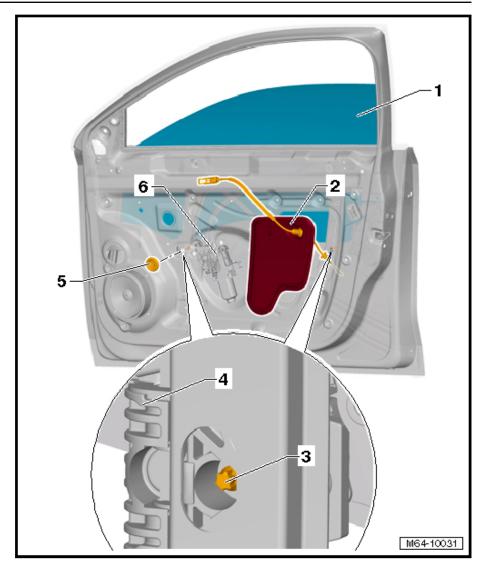


## Note

The door window will fit correctly inside the window guide -arrow- if the procedure is performed correctly.



Perform a functionality test before installing the cap -5-, the cover -2- and the door trim panel.



#### Window Regulator Motor, Removing 2.4 and Installing

⇒ R2.4.1 egulator Motor, Removing and Installing, High Equipment AW1", page 250

⇒ R2.4.2 egulator Motor, Removing and Installing, Low Equipment AW0", page 253

### Window Regulator Motor, Removing 2.4.1 and Installing, High Equipment AW1

### Special tools and workshop equipment required

♦ Vehicle Diagnostic Tester

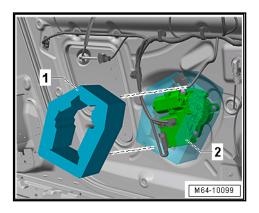


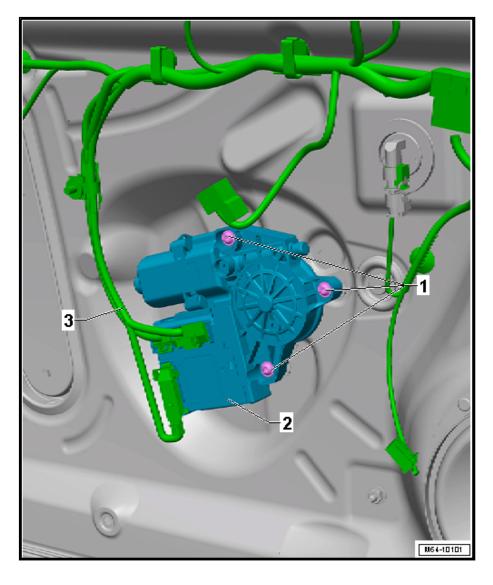
Note

The following describes the removal and installation of the left window regulator motor. Removing and installing the right window regulator motor is identical.

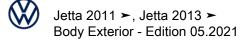
## Removing

- Remove the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the foam piece -1- from the window regulator motor -2-, if equipped.





Secure the door window with adhesive tape to prevent it from falling down.





### Caution

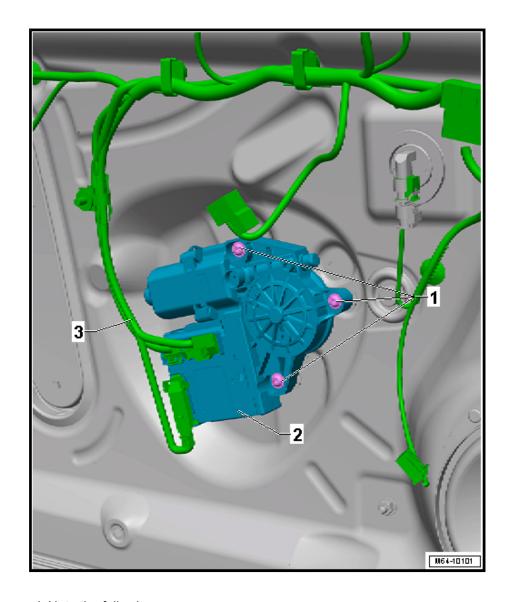
- Switch off the ignition and all electrical equipment.
- Remove the ignition key.
- Disconnect the connector on the wiring harness -3-.
- Remove three bolts -1-.
- Remove the window regulator motor and control module -2from the mounts on the cable reel.

### Installing



## **WARNING**

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.



Install in reverse order of removal. Note the following:

- Install the window regulator motor -2- on the mounts in the cable reel. Gently move the door window up and down so that the splines between the window regulator motor and the cable reel can mesh.
- Tighten the bolts -1-.
- Connect the connector on the wiring harness -3-.



#### WARNING

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to <del>⇒ -2.17 Insulation", page 131</del>.

- Code the new window regulator motor using the Vehicle Diagnostic Tester.
- The procedure and information regarding the one-touch up/ down function as well as the pinch protection can be found here ⇒ Maintenance; Booklet 20.1.

### **Tightening Specifications**

Refer to ⇒ -2.2 Front Door Window", page 243

# Window Regulator Motor, Removing and Installing, Low Equipment AW0

### Special tools and workshop equipment required

♦ Vehicle Diagnostic Tester

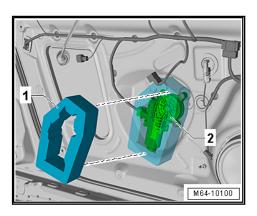


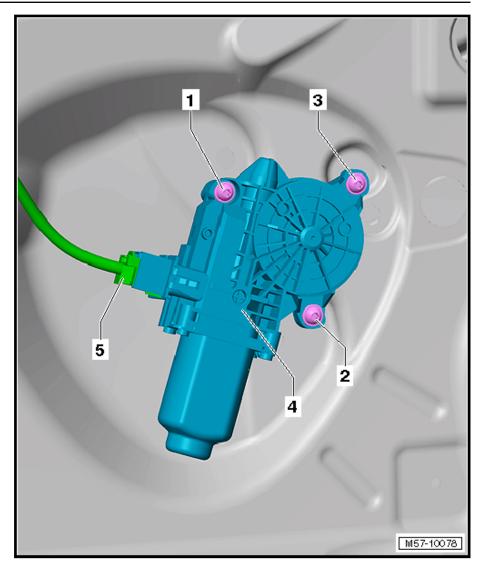
#### Note

The following describes the removal and installation of the left window regulator motor. Removing and installing the right window regulator motor is identical.

### Removing

- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70; Door Trim Panels.
- Remove the foam piece -1- from the window regulator motor -2-, if equipped.





- Secure the door window with adhesive tape to prevent it from falling down.
- Switch off the ignition and all electrical equipment.
- Remove the ignition key.
- Disconnect the connector -5-.
- Remove the bolts -1 through 3-.
- Remove the window regulator motor -4- from the mounts of the cable reel.

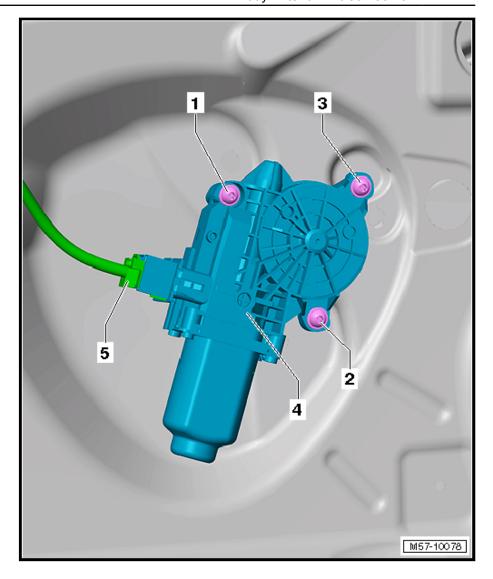
### Installing



## **WARNING**

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.





Install in reverse order of removal. Note the following:

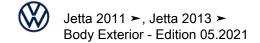
- Install the window regulator motor -4- on the mounts of the cable reel. Gently move the door window up and down so that the splines between the window regulator motor and the cable reel can mesh.
- Attach the connector -5-.
- Tighten the bolts in a -1 through 3- sequence.



### **WARNING**

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to ⇒ -2.17 Insulation", page 131.

- Code the new window regulator motor using the Vehicle Diagnostic Tester.
- The procedure and information regarding the one-touch up/ down function as well as the pinch protection can be found here ⇒ Maintenance; Booklet 20.1.



### **Tightening Specifications**

◆ Refer to ⇒ -2.2 Front Door Window", page 243

#### 2.5 Window Regulator, Removing and Installing

⇒ 2.5.1 , page 256

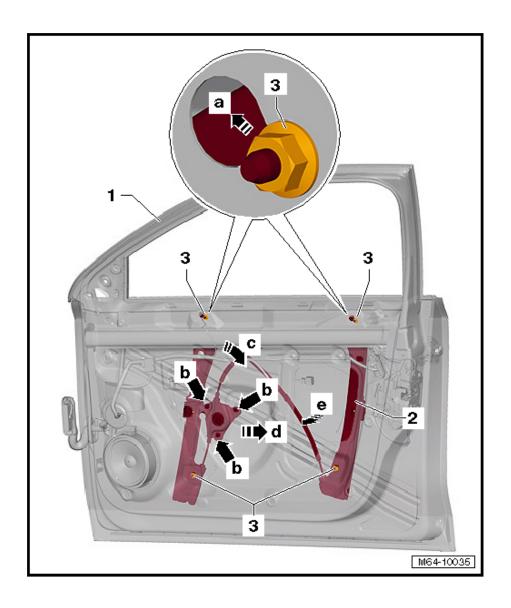
⇒ 2.5.2 , page 257

#### 2.5.1 Removing



## Note

The following describes removing and installing the right window regulator. Removing and installing the left window regulator is identical.

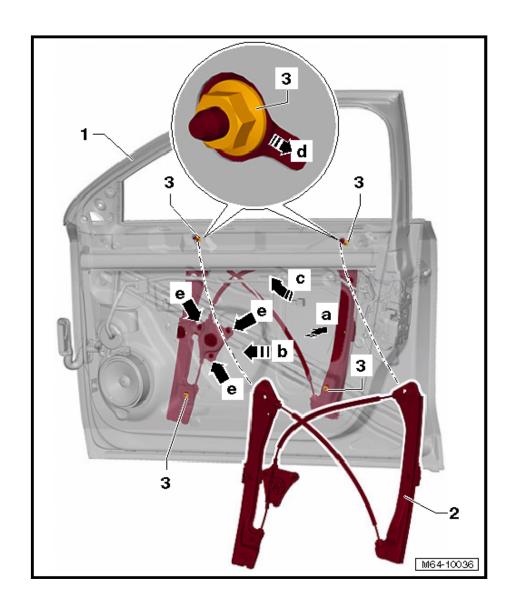


### Perform the following:

Remove the door window. Refer to  $\Rightarrow$  W2.3 indow, Removing and Installing", page 244 .

- Remove the window regulator motor. Refer to ⇒ R2.4 egulator Motor, Removing and Installing", page 250
- Release the hooks on the cable reel -b arrows- and push it into the door.
- Remove only the lower nuts -3- and push the threaded pin on the window regulator into the door.
- Loosen the top nuts -3- (do not remove them), slide them together with the window regulator in direction of the -arrow aand push them into the door.
- Pivot the window regulator -2- with the cable reel out through the opening in the door in direction of -arrows c-, -d and e-.

#### 2.5.2 Installing



### Perform the Following:

- Install the window regulator -2- with the cable reel through the opening in the door in direction of -arrows a-, -b and c-.
- Insert the upper threaded pins and nuts -3- through the door panel and move them in direction of -arrow d-.

- Insert the threaded pins on the window regulator through the door panel.
- Install the lower nuts -3- and then tighten all the nuts -3-.

Nut tightening specification -3-: 8 Nm

- Insert the guides on the cable reel through the door panel until the hook engage -arrows e-.
- Install the window regulator motor. Refer to <u>⇒ R2.4 egulator</u> Motor, Removing and Installing", page 250.
- Install the door window. Refer to <u>⇒ W2.3 indow, Removing</u> and Installing", page 244

# 2.6 Window Guide, Removing and Instal-

⇒ 2.6.1 , page 258

⇒ 2.6.2, page 259

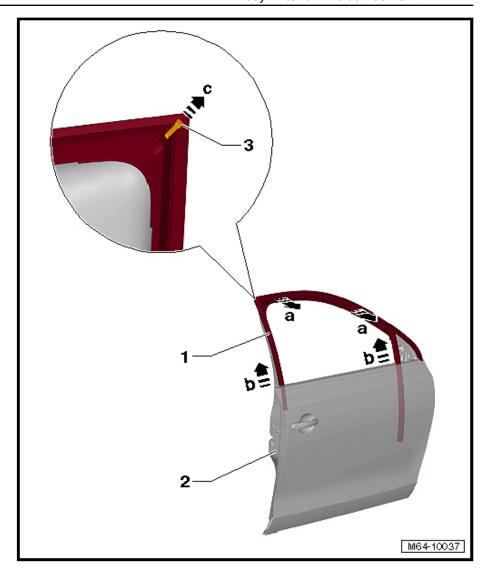
#### 2.6.1 Removing



### Note

- The following describes removing and installing the right window guide. Removing and installing the left window guide is identical.
- Do not bend window shaft seal when removing!

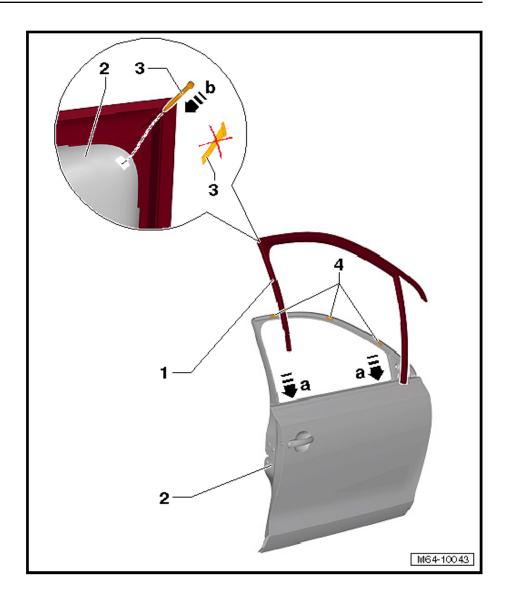




### Perform the following:

- Remove the door window. Refer to ⇒ W2.3 indow, Removing and Installing", page 244
- Remove the inner window shaft seal. Refer to <u>⇒ W2.13 in-</u> dow Shaft Seal, Removing and Installing", page 122.
- Remove the outer window shaft seal. Refer to ⇒ W2.14 indow Shaft Seal, Removing and Installing", page 125.
- Remove the clip -3- in direction of -arrow c-.
- Roll the window guide sealing lip -1- off the door flange from the inside.
- Remove the window guide -1- in direction of -arrows a- from the door flange -2- all the way around.
- Remove the window guide -1- from the mounts -arrows b-.

#### 2.6.2 Installing



### Perform the following:

Tape off the openings -4- under the window guide with cloth tape.

Tape size: Height = approximately 10 mm, width = approximately 40 mm

- Spray the window guide with soapy water to make it easier to install.
- Install the window guide -1- into the mounts in direction of -a arrows-.
- Press the window guide -1- onto the door flange -2-.
- Pull the window guide sealing lip onto the door flange from the inside.



## Note

Make sure the window guide -1- fits evenly when installing it (wind noises).

Install the clip -3- -arrow b-.



# Note

- ♦ The bevel on the clip must face toward the vehicle interior.
- ♦ Turn the clip the other way if the bevel faces the outside of the vehicle -with a red line drawn through it-.

Install in reverse order of removal.

#### 3 **Rear Door Window**

- ⇒ 3.1 , page 262
- ⇒ -3.2 Rear Door Window", page 262
- ⇒ W3.3 indow, Removing and Installing", page 264
- ⇒ R3.4 egulator Motor, Removing and Installing", page 268
- ⇒ R3.5 egulator, Removing and Installing", page 273
- ⇒ G3.6 uide, Removing and Installing", page 276
- ⇒ D3.7 oor Window, Removing and Installing", page 278

#### 3.1 **Tools**

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 2-10Nm -VAG1783-
- 3.2 Overview - Rear Door Window



Note

The illustration shows the right side. The left side is identical.

#### 1 - Door Window

Removing and installing. Refer to W3.3 indow, Removing and Installing", page 264 .

### 2 - Fixed Door Window

□ Removing and installing. Refer to ⇒ D3.7 oor Window, Removing and Installing", <u>page 278</u>.

#### 3 - Bolt

- □ Tightening specification: 5.5 Nm
- ☐ Quantity: 2

### 4 - Window Regulator

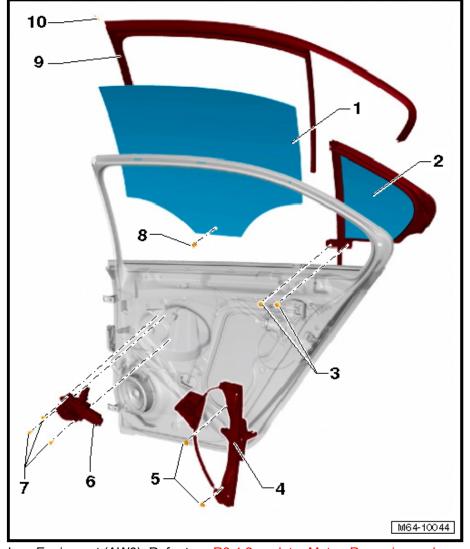
□ Removing and installing. Refer to ⇒ R3.5 egulator, Removing and Installing", <u>page 273</u> .

## 5 - Nut

- Tightening specification: 8 Nm
- Quantity: 2

### 6 - Window Regulator Motor

□ Removing and Installing, High Equipment (AW1). Refer to ⇒ R3.4.1 egulator Motor, Removing and Installing, High Equipment AW1", page 268



□ Removing and Installing, Low Equipment (AW0). Refer to ⇒ R3.4.2 egulator Motor, Removing and Installing, Low Equipment AW0", page 270

#### 7 - Screw

- ☐ High equipment (AW1): 3 Nm
- □ Low equipment (AW0): 4 Nm, note the tightening sequence. Refer to ⇒ R3.4.2 egulator Motor, Removing and Installing, Low Equipment AW0", page 270

### 8 - Spreader Plug with Expanding Pin

- ☐ For securing the door window -1-
- ☐ Always replace when performing assembly work on the door window -1-

#### 9 - Window Guide

□ Removing and installing. Refer to ⇒ G3.6 uide, Removing and Installing", page 276.

### 10 - Clip

#### Door Window, Removing and Installing 3.3

⇒ 3.3.1 , page 264

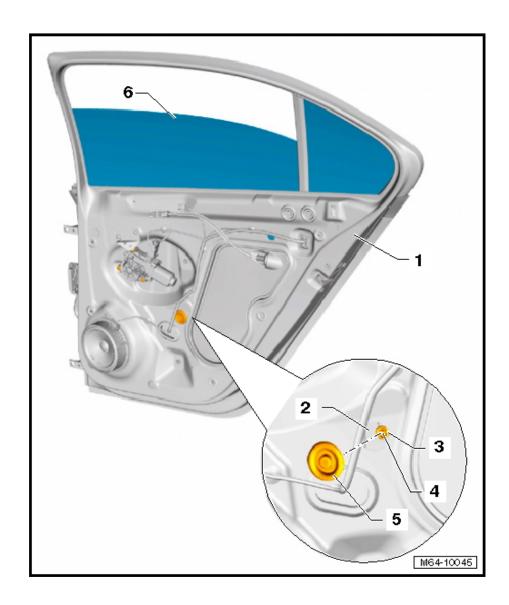
⇒ 3.3.2 , page 266

#### 3.3.1 Removing



## Note

- The following describes the removal and installation of the right door window. Removing and installing the left door window is identical.
- Do not bend window shaft seal when removing!



## Perform the Following:

- Remove the rear door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Lower the door window -6- until it stops.



### Note

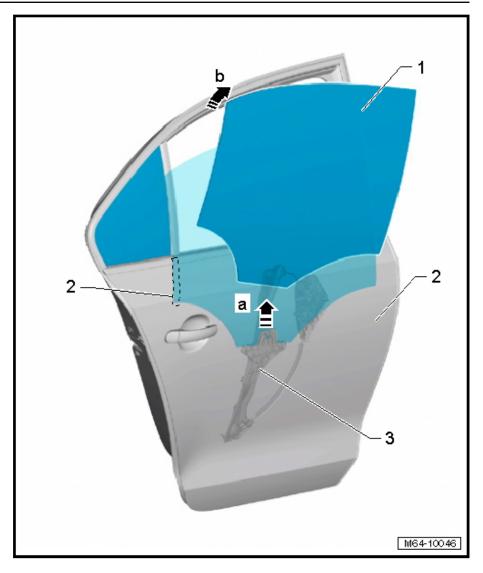
- If it is not possible to do this because the window regulator motor -7- is faulty, then remove the motor. Refer to ⇒ R3.4 egulator Motor, Removing and Installing", page 268.
- Then the door window can be moved to the necessary position.
- Remove the inner window shaft seal. Refer to <u>⇒ W2.11 in-</u> dow Shaft Seal, Removing and Installing", page 172.
- Remove the outer window shaft seal. Refer to ⇒ W2.12 indow Shaft Seal, Removing and Installing", page 173.
- Remove the front part of the window guide (on the B-pillar). Refer to ⇒ G3.6 uide, Removing and Installing", page 276.
- Pry out the cap -5-.
- Lift the door window -6- just enough until the expanding pin -4- and the spreader plug -3- are accessible in the opening for the window regulator -2-.
- Install a 5 mm screw (approximately 70 mm long) into the expanding pin -4- and pull it out of the spreader plug -3-.
- Install a 8 mm screw (approximately 80 mm long) into the spreader plug -3-.



### Note

Do not apply excessive pressure on the plug when installing the screw into the plug. Otherwise it will fall inside the door.

Remove the spreader plug -3- from window regulator guide and thereby from door window.



- Remove the door window -1- from the window regulator -3in direction of -a arrows-.
- Remove the door window -1- at an angle in direction of -arrows b- from the window shaft.

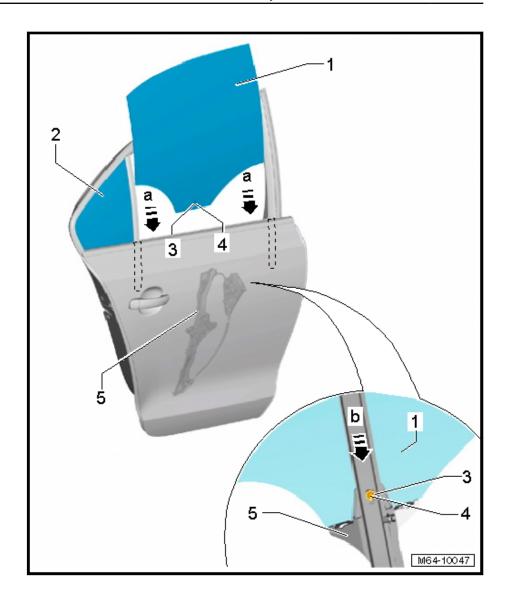
#### 3.3.2 Installing



### Note

- Spreader plug -3- and spreader pin -4- must always be replaced when performing assembly work on door
- Check the door window -1- for damage before installing the spreader plug -3- and the expanding pin -4-.





### Perform the Following:

- Install the spreader plug -3- with the door window removed -1- and center it.
- Press in spreader pin -4- flush into spreader plug -3-.
- Guide the door window -1- in the door -2- in direction of -arrows a- and insert the door window into the slot in the window regulator guide -5-.
- Secure the window -1- with light pressure from above in direction of -arrow b- inside the window regulator -5-.

Install in reverse order of removal.

#### Window Regulator Motor, Removing 3.4 and Installing

⇒ R3.4.1 egulator Motor, Removing and Installing, High Equipment AW1", page 268

⇒ R3.4.2 egulator Motor, Removing and Installing, Low Equipment AW0", page 270

#### 3.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1

Special tools and workshop equipment required

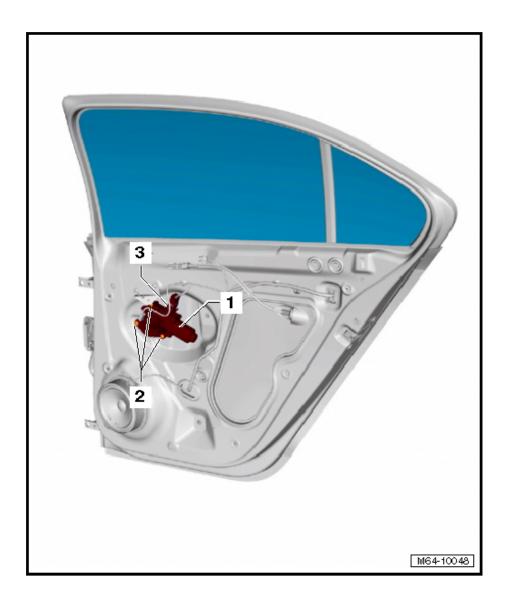
♦ Vehicle Diagnostic Tester

Removing



Note

The following describes removing and installing the right window regulator motor. Removing and installing the left window regulator motor is identical.



- Remove the rear door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Secure the door window with adhesive tape to prevent it from falling down.



#### Caution

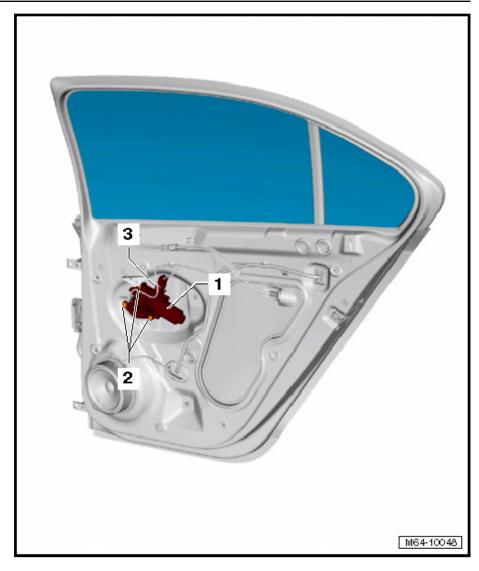
- ◆ Switch off the ignition and all electrical equipment.
- ◆ Remove the ignition key.
- Disconnect the connector -3-.
- Remove three bolts -2-.
- Remove the window regulator motor and control module -1from the mounts on the cable reel.

### Installing



### **WARNING**

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.



Install in reverse order of removal. Note the following:

- Install the window regulator motor -1- on the cable reel mounts. Gently move the door window up and down so that the splines between the window regulator motor and the cable reel can mesh.
- Install three bolts -2-.

Screw tightening specification -2-: 4 Nm

- Connect the connector -3-.
- Code the new window regulator motor using the Vehicle Diagnostic Tester.
- The procedure and information regarding the one-touch up/ down function as well as the pinch protection can be found here ⇒ Maintenance; Booklet 20.1.

### **Tightening Specifications**

- ◆ Refer to ⇒ -3.2 Rear Door Window", page 262
- 3.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0

Special tools and workshop equipment required

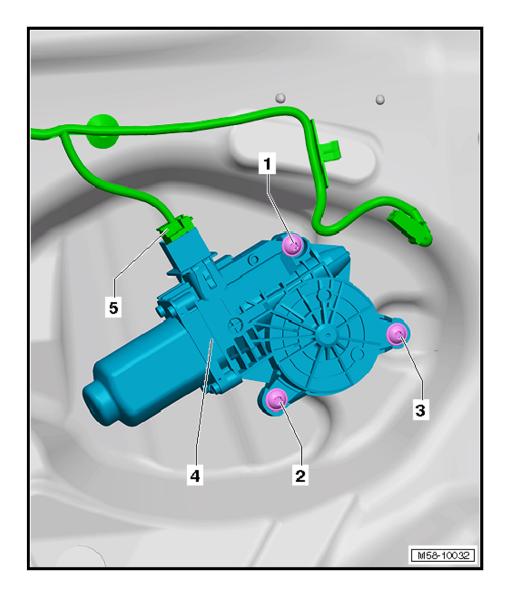
### ◆ Vehicle Diagnostic Tester

### Removing

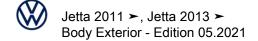


## Note

The following describes the removal and installation of the left window regulator motor. Removing and installing the right window regulator motor is identical.



- Remove the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Secure the door window with adhesive tape to prevent it from falling down.
- Switch off the ignition and all electrical equipment.
- Remove the ignition key.
- Disconnect the connector -5-.
- Remove the bolts -1 through 3-.
- Remove the window regulator motor -4- from the mounts of the cable reel.

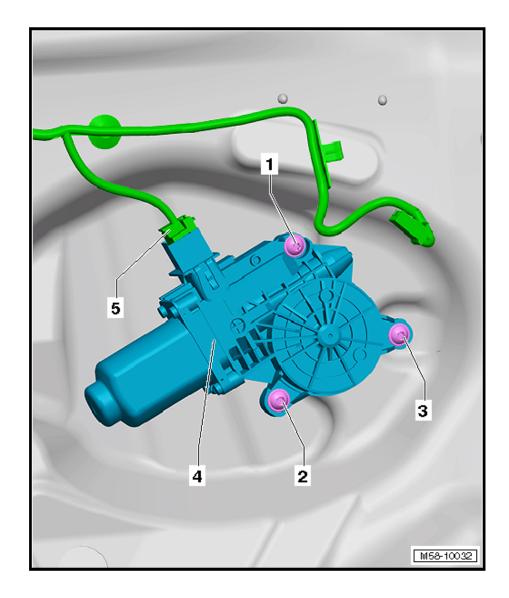


### Installing



## **WARNING**

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.



Install in reverse order of removal. Note the following:

- Install the window regulator motor -4- on the mounts of the cable reel. Gently move the door window up and down so that the splines between the window regulator motor and the cable reel can mesh.
- Attach the connector -5-.
- Tighten the bolts in a -1 through 3- sequence.



### **WARNING**

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to ⇒ -2.17 Insulation", page 131.

- Code the new window regulator motor using the Vehicle Diagnostic Tester.
- The procedure and information regarding the one-touch up/ down function as well as the pinch protection can be found here. Refer to ⇒ Maintenance; Booklet 20.1.

### **Tightening Specifications**

- ◆ Refer to ⇒ -3.2 Rear Door Window", page 262
- 3.5 Window Regulator, Removing and Installing

⇒ 3.5.1 , page 273

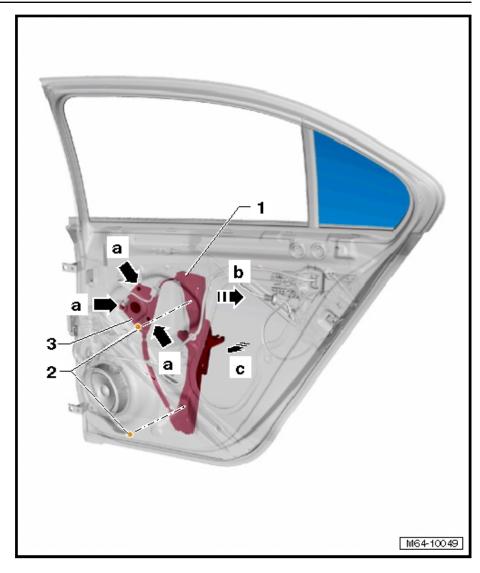
⇒ 3.5.2 , page 274

3.5.1 Removing



Note

The following describes removing and installing the right window regulator. Removing and installing the left window regulator is identical.

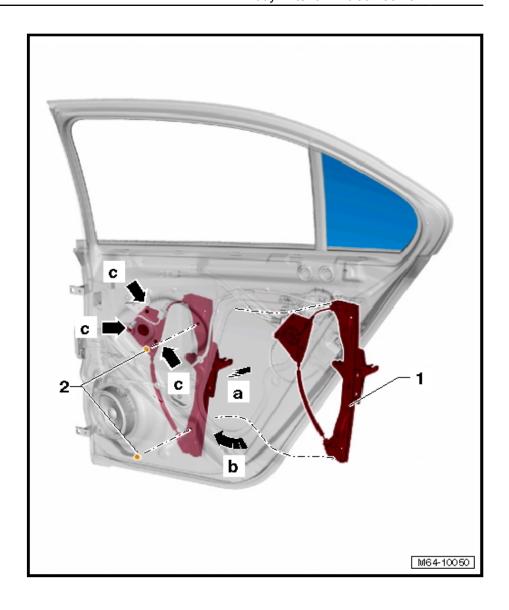


### Perform the following:

- Remove the cover. Refer to ⇒ R2.3 emoving and Installing", page 154
- Remove the door window. Refer to <u>⇒ W3.3 indow, Remov-</u> ing and Installing", page 264.
- Remove the window regulator motor. Refer to ⇒ R3.4 egulator Motor, Removing and Installing", page 268
- Release the hooks on the cable reel in direction of -a arrows- and push it -3- into the door.
- Remove the nuts -2- and push the threaded pin on the window regulator into the door.
- Swivel the window regulator -1- with the cable reel out through the opening in the door in direction of -arrows b and c-.

#### 3.5.2 Installing





### Perform the following:

- Install the window regulator -1- with the cable reel through the opening in the door -arrow a and b-.
- Insert the threaded pins on the window regulator through the door panel.
- Install and tighten the nuts -2-.

### Nut tightening specification -2-: 8 Nm

- Insert the guides on the cable reel through the door panel until the hooks engage -arrows c-.
- Install the window regulator motor. Refer to <u>⇒ R3.4 egulator</u> Motor, Removing and Installing", page 268.
- Install the door window. Refer to ⇒ W3.3 indow, Removing and Installing", page 264.
- Install the cover. Refer to ⇒ R2.3 emoving and Installing", page 154.



# Window Guide, Removing and Instal-3.6

⇒ 3.6.1 , page 276

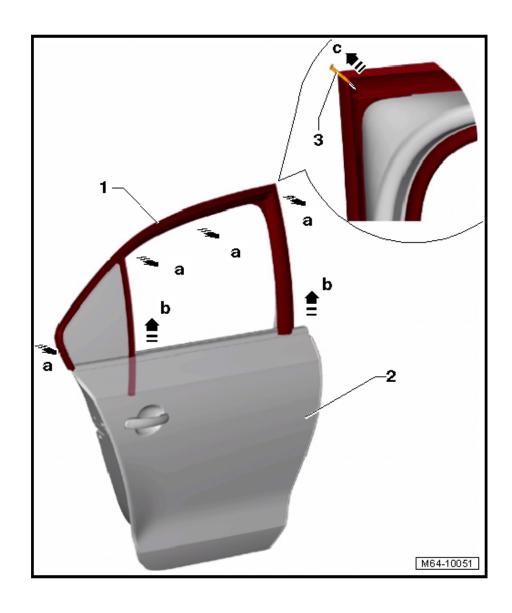
⇒ 3.6.2 , page 277

#### 3.6.1 Removing



Note

The following describes removing and installing the right window guide. Removing and installing the left window guide is

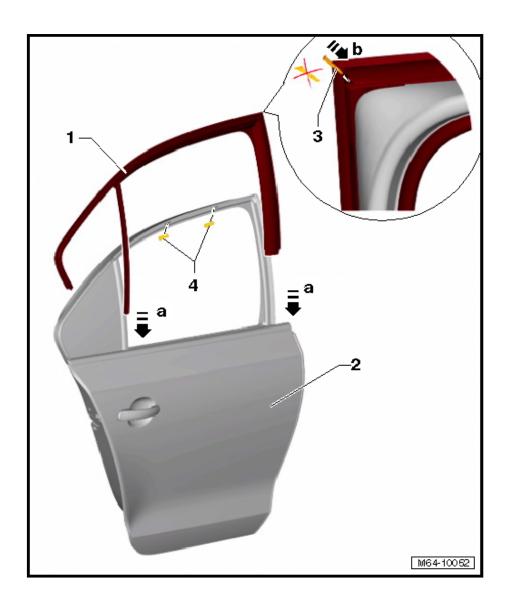


## Perform the following:

- Remove the door window. Refer to  $\Rightarrow$  W3.3 indow, Removing and Installing", page 264 .
- Remove the clip -3- in direction of -arrow c-.
- Roll the window guide sealing lip -1- off the door flange from the inside.

- Remove the window guide -1- in direction of -arrows a- from the door flange -2- all the way around.
- Remove the window guide -1- from the mounts in direction of -arrows b-.

#### Installing 3.6.2



## Perform the Following:

Tape off the openings -4- under the window guide with cloth tape.

Tape size: Height = approximately 10 mm, width = approximately 40 mm

- Spray the window guide with soapy water to make it easier
- Install the window guide -1- into the mount on the fixed door window in direction of -arrow a-.
- Push the window guide -1- evenly onto the door flange -2from the fixed door window up the B-pillar.
- Pull the sealing lip on the window guide up to the B-pillar onto the door flange.





### Note

- Make sure the window guide -1- fits evenly when installing it (wind noises).
- Install the window guide on the B-pillar after installing the door window.
- Install the clip -3- in direction of -arrow b-.



## Note

- The bevel on the clip must face toward the vehicle interior.
- Turn the clip the other way if the bevel faces the outside of the vehicle -with a red line drawn through it-.

Install in reverse order of removal.

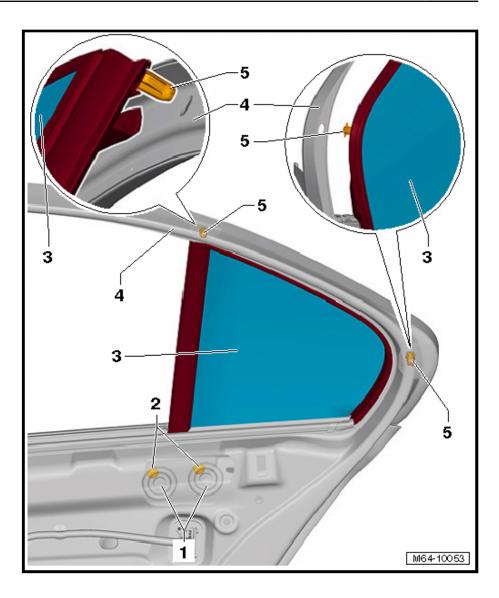
#### Fixed Door Window, Removing and In-3.7 stalling

⇒ 3.7.1 , page 278

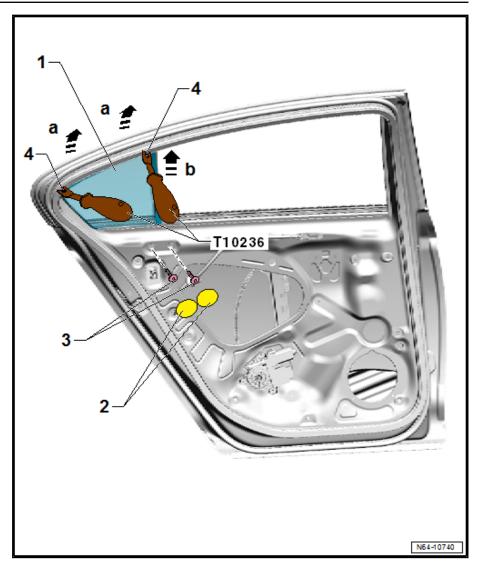
⇒ 3.7.2 , page 280

#### 3.7.1 Removing

Perform the following procedures:



- Remove the window guide. Refer to  $\Rightarrow$  G3.6 uide, Removing and Installing", page 276 .
- Pry the caps -1- out.
- Remove the bolts -2-.





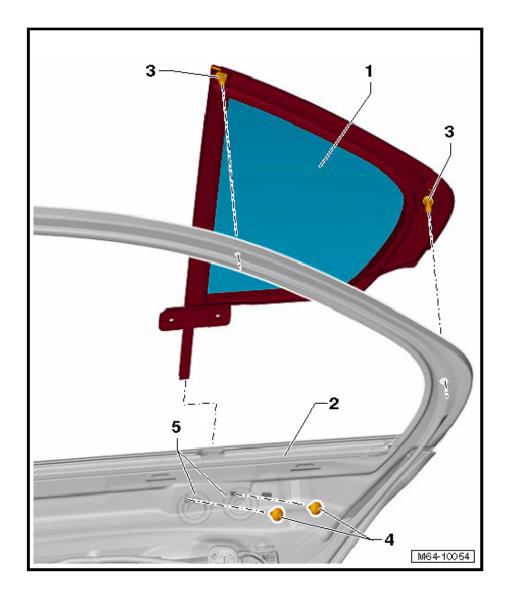
# Note

The screws -3- and caps -2- are already removed.

- Guide the -T10236- one after the other under both clips -4-.
- Push the door window -1- slightly outward -a arrows- until the clips -4- are pushed out of the door.
- Remove the door window -1- with the bar upward -arrow bfrom the door.

#### 3.7.2 Installing





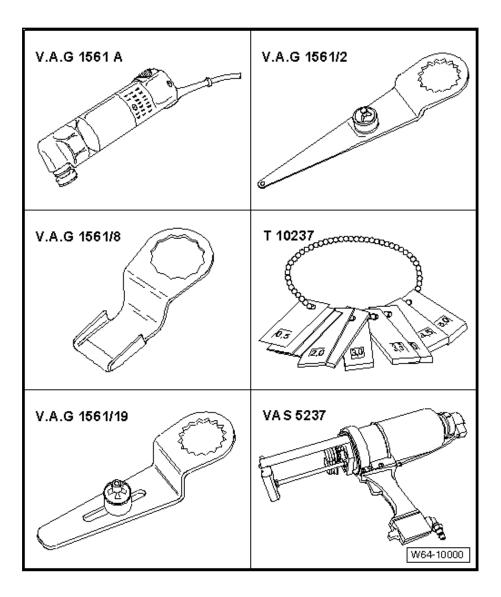
# Perform the following procedures:

- Install the fixed door window -1- into the door -2-.
- Press the fixed door window -1- evenly onto the door -2until the clips engage -3-.
- Install the caps -5- in the inner door panel.
- Install the window guide. Refer to ⇒ G3.6 uide, Removing and Installing", page 276.

# **Tightening Specification**

◆ Refer to ⇒ -3.2 Rear Door Window", page 262

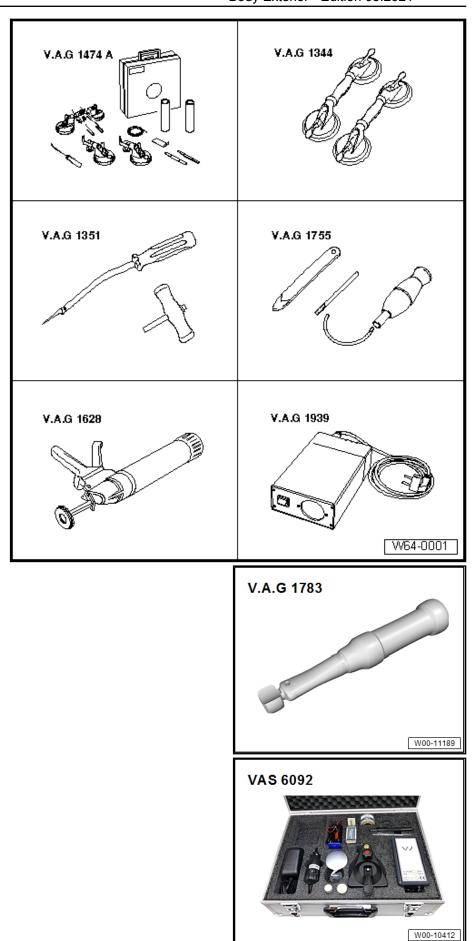
# **Special Tools**

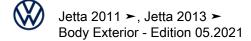


♦ Double Cartridge Gun - VAS5237-



Special tools and workshop equipment required





- Gauge Gap Adjustment -3371-
- Double Suction Lifter -VAG1344-
- Bonded Window Tool Kit -VAG1351-
- Flush Bonded Window Kit VAG1474B-
- Flush Bonded Window Kit Cover For Audi 80/92> Dash Panel -VAG1474/8-
- Window Cutter -VAG1561A-
- Window Cutter Saw Blade -VAG1561/2-
- ♦ Window Cutter Saw Blade -VAG1561/8-
- Window Cutter Blade (2 pc.) -VAG1561/19-
- ◆ Cartridge Gun VAG1628-
- ♦ Window Removing Kit VAG1755-
- ◆ Torque Wrench 1783 2-10Nm -VAG1783-
- ♦ Window Repair Kit -VAS6092-
- ◆ Grindstone Holder -VAG1939-
- ◆ Cutting Tool for Bonded Windows -VAS6452-

#### **Exterior Equipment** 66 –

# Wheel Housing Liner

- ⇒ 1.1 , page 285
- ⇒ -1.2 Front Wheel Housing Liner", page 285
- ⇒ W1.3 heel Housing Liner, Removing and Installing", page 286
- ⇒ -1.4 Rear Wheel Housing Liner", page 288
- ⇒ W1.5 heel Housing Liner, Removing and Installing", page 289

#### 1.1 **Tools**

Special tools and workshop equipment required

- ♦ Torque Wrench 1783 2-10Nm -VAG1783-
- 1.2 **Overview - Front Wheel Housing Liner**



# Note

- The wheel housing liner may differ slightly depending on the model.
- ♦ The illustration shows the left side. The right side is identical.

# 1 - Wheel Housing Liner

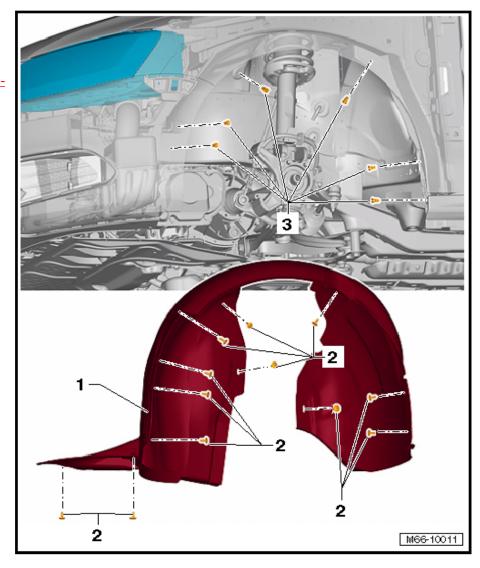
- □ PP/EPDM material
- Removing and installing. Refer to ⇒ W1.3 heel Housing Liner, Removing and Installing", page 286.

#### 2 - Screw

- ☐ Tightening specification: 2 Nm
- ☐ Quantity: 12

# 3 - Expanding Nut

- □ Replace if damaged
- Quantity: 6



#### Front Wheel Housing Liner, Removing 1.3 and Installing

⇒ 1.3.1 , page 286

⇒ 1.3.2 , page 287

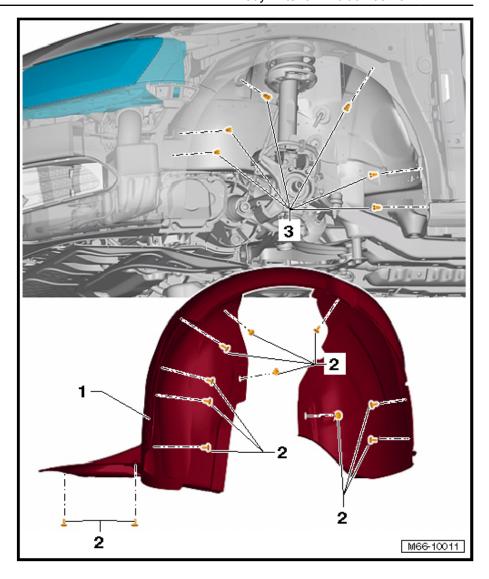
#### 1.3.1 Removing



# Note

- The following describes removing and installing the left wheel housing liner. Removing and installing right wheel housing liner is identical.
- Depending on the model version, slight differences must be considered when removing and installing.

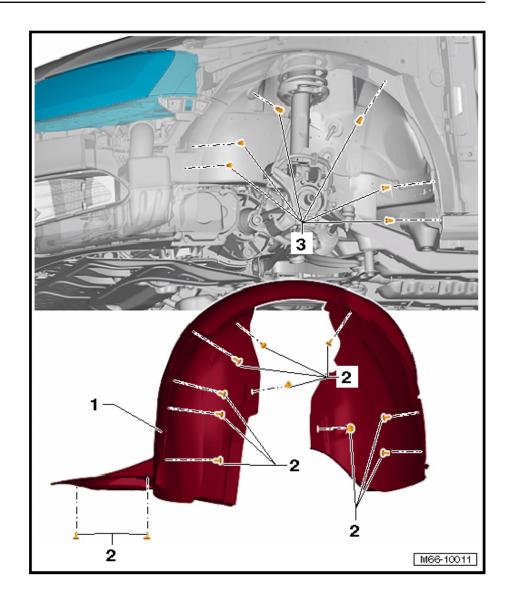




# Perform the Following:

- Remove the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44; Wheel Installation Tightening Specifica-
- Remove the bolts -2- (quantity: 12).
- Remove the wheel housing liner -1- from the fender.

#### 1.3.2 Installing



### Perform the Following:



# Note

Check the expanding nuts -3- for damage and replace if necessary.

- Install the wheel housing liner -1- into the fender.
- Install and tighten the bolts -2-.

Bolt tightening specification -2-: 2 Nm

Install the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44; Wheel Installation Tightening Specifications.

#### 1.4 Overview - Rear Wheel Housing Liner



# Note

- The wheel housing liner may differ slightly depending on the model.
- The illustration shows the left side. The right side is identical.

# 1 - Wheel Housing Liner

- □ PP/EPDM material
- Removing and installing. Refer to ⇒ W1.5 heel Housing Liner, Removing and Installing", page 289

#### 2 - Screw

- ☐ Tightening specification: 2 Nm
- ☐ Quantity: 10

### 3 - Expanding Nut

- □ Quantity: 5
- □ Replace if damaged

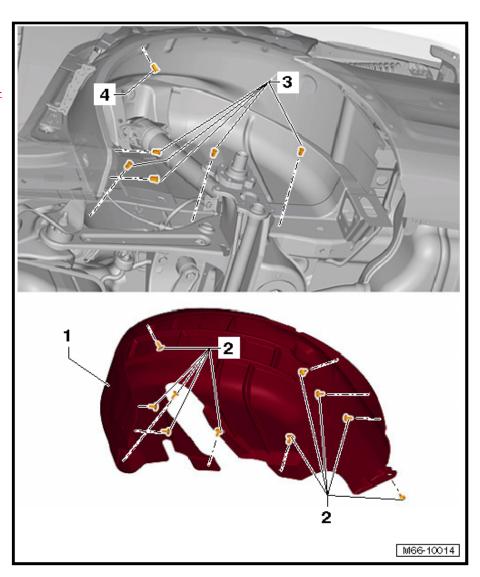
### 4 - Expanding Nut

□ Gas-tight



panding nuts for damage and replace if necessary.

The expanding nuts seal off the passenger compartment from exhaust gas and must always be replaced if they are damaged.

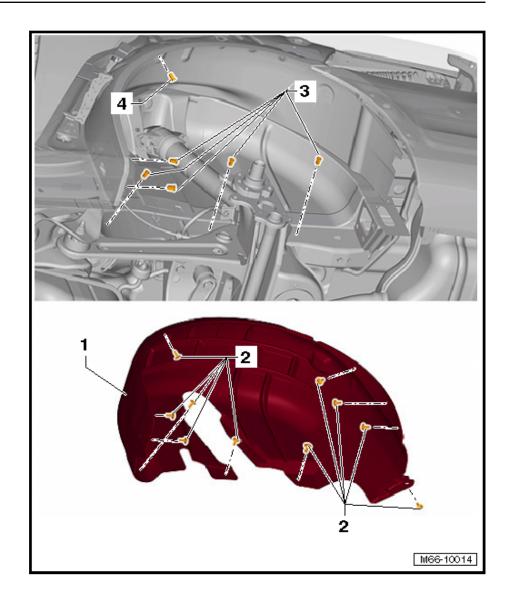


#### Rear Wheel Housing Liner, Removing 1.5 and Installing

⇒ 1.5.1 , page 289

⇒ 1.5.2 , page 290

#### Removing 1.5.1

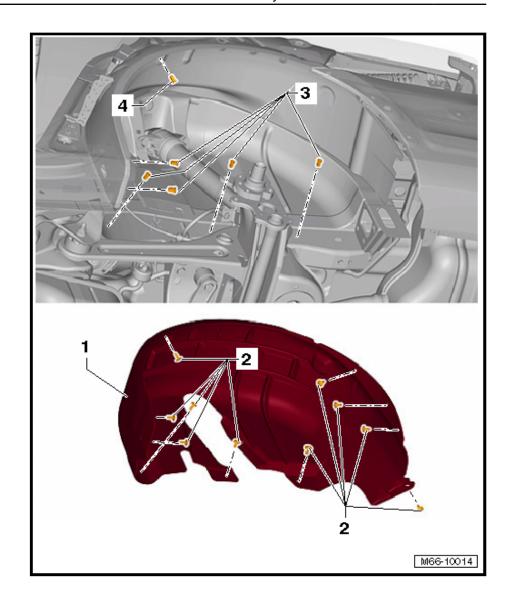


# Perform the Following:

- Remove the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44; Wheel Installation Tightening Specifications.
- Remove the bolts -2- (quantity: 10).
- Remove the wheel housing liner -1- from the fender.

#### 1.5.2 Installing





# Perform the Following:



# Note

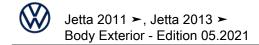
Check the expanding nuts -3- for damage and replace if necessary.



# **WARNING**

- ♦ Check the gas-tight expanding nuts -4- for damage and replace if necessary.
- ◆ The expanding nuts seal off the passenger compartment from exhaust gas and must always be replaced if they are damaged.
- Install the wheel housing liner -1- into the fender.
- Install and tighten the bolts -2-.

Bolt tightening specification -2-: 2 Nm



Install the wheel. Refer to  $\Rightarrow$  Suspension, Wheels, Steering; Rep. Gr. 44; Wheel Installation Tightening Specifications.

#### 2 **Exterior Rearview Mirror**

- ⇒ 2.1 , page 293
- ⇒ -2.2 Manual Exterior Mirror", page 293
- ⇒ -2.3 Exterior Rearview Mirror, Power Exterior Mirror without Exterior Rearview Mirror Turn Signal", page 294
- ⇒ -2.4 Exterior Rearview Mirror, Power Exterior Mirror with Exterior Rearview Mirror Turn Signal", page 295
- ⇒ G2.5 lass, Removing and Installing", page 297
- ⇒ R2.6 emoving and Installing, without Exterior Rearview Mirror Turn Signal", page 298
- ⇒ w2.7 ith Exterior Rearview Mirror Turn Signal, Removing and Installing", page 300
- ⇒ H2.8 ousing without Exterior Rearview Mirror Turn Signal, Removing and Installing", page 302
- ⇒ H2.9 ousing, Removing and Installing, with Exterior Rearview Mirror Turn Signal", page 303
- ⇒ U2.10 nit with Exterior Rearview Mirror Motor, Removing and Installing", page 305
- ⇒ P2.11 art, Removing and Installing", page 307
- ⇒ E2.12 xterior Rearview Mirror, Removing and Installing", page 308
- ⇒ E2.13 xterior Rearview Mirror, Removing and Installing", page 312

#### 2.1 Tools

Special tools and workshop equipment required

- ♦ Wedge Set -T10383-
- ◆ Torque Wrench 1783 2-10Nm -VAG1783-

#### 2.2 Overview - Manual Exterior Mirror



Note

The illustration shows the right side. The left side is identical.

### 1 - Mirror Housing

- Material: ABS
- Removing and installing. Refer to ⇒ H2.8 ousing without Exterior Rearview Mirror Turn Signal, Removing and Installing", page 302

### 2 - Mirror Base

□ Removing and installing. Refer to = E2.12 xterior Rearview Mirror, Removing and Installing", page 308

# 3 - Trim

Removing and installing. Refer to ⇒ R2.6 emoving and Installing, without Exterior Rearview Mirror Turn Signal", page 298

# 4 - Mirror Glass

Removing and installing. Refer to ⇒ G2.5 lass, Removing and Installing", page 297

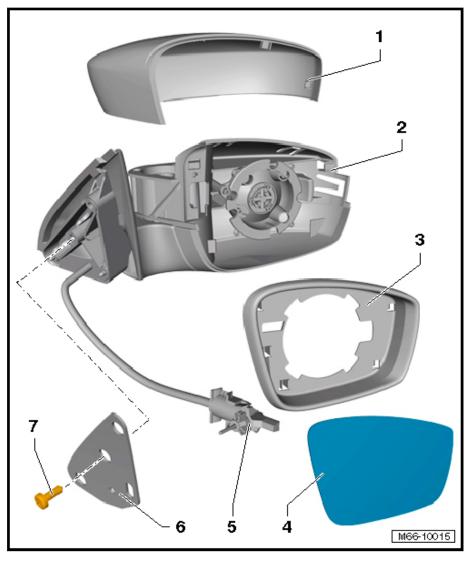
# 5 - Adjusting Unit

Cannot be removed from the hinge base -2-

#### 6 - Insulation

#### 7 - Bolt

☐ Tightening specification: 12 Nm.



#### 2.3 Overview - Exterior Rearview Mirror, Power Exterior Mirror without Exterior Rearview Mirror Turn Signal



# Note

The illustration shows the right side. The left side is identical.

### 1 - Mirror Housing

- Material: ABS
- Removing and installing. Refer to ⇒ H2.8 ousing without Exterior Rearview Mirror Turn Signal, Removing and Installing", page 302 .

### 2 - Mirror Base

□ Removing and installing. Refer to = E2.13 xterior Rearview Mirror, Removing and Installing", page 312

#### 3 - Adjusting Unit with Exterior Rearview Mirror Motor

□ Removing and installing. Refer to ⇒ U2.10 nit with Exterior Rearview Mirror Motor, Removing and Installing", page 305

#### 4 - Screw

- ☐ Tightening specification: 2 Nm
- Quantity: 3

### 5 - Trim

□ Removing and installing. Refer to ⇒ R2.6 emoving and Installing, without Exterior Rearview Mirror Turn Signal", page 298

# 6 - Mirror Glass

□ Removing and installing. Refer to ⇒ G2.5 lass, Removing and Installing", page 297.

### 7 - Wire with Connector

#### 8 - Bolt

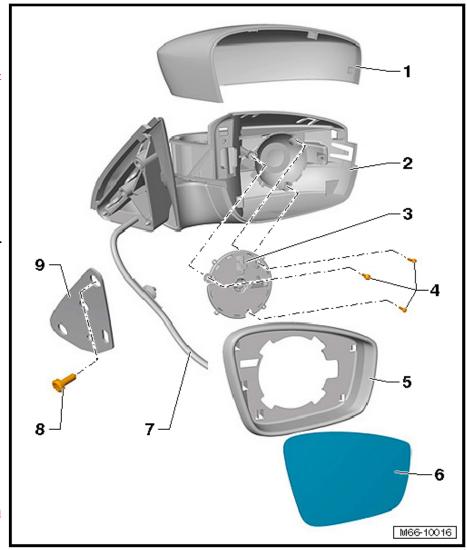
- ☐ Tightening specification: 12 Nm.
- 9 Insulation

#### 2.4 Overview - Exterior Rearview Mirror, Power Exterior Mirror with Exterior Rearview Mirror Turn Signal



### Note

The illustration shows the left side. The right side is identical.



#### 1 - Mirror Base

Removing and installing. Refer to E2.13 xterior Rearview Mirror, Removing and Installing", page 312.

# 2 - Entry Lamp

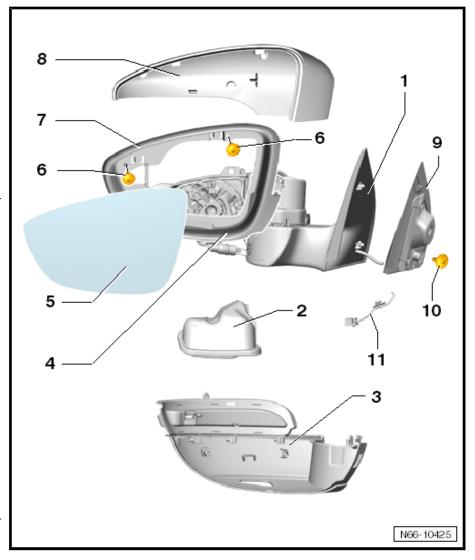
- Not installed in all model versions
- Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94; Lamps in Exterior Rearview Mirror; Exterior Rearview Mirror Entry Lamp, Removing and Installing.

### 3 - Assembly Part

- With exterior rearview mirror turn signal, frame and intermediate piece
- Removing and installing. Refer to ⇒ P2.11 art, Removing and Installing", page 307

### 4 - Bulb for Entry Lamp

- Not installed in all model versions
- Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94; Lamps in Exterior Rearview Mirror; Exterior Rearview Mirror Entry Lamp, Removing and Installing.



#### 5 - Mirror Glass

□ Removing and installing. Refer to ⇒ G2.5 lass, Removing and Installing", page 297.

# 6 - Screw

- □ 1 Nm
- Quantity: 2

# 7 - Trim

□ Removing and installing. Refer to ⇒ w2.7 ith Exterior Rearview Mirror Turn Signal, Removing and Installing", page 300.

### 8 - Mirror Housing

- ☐ Material: ABS
- Removing and installing. Refer to ⇒ H2.9 ousing, Removing and Installing, with Exterior Rearview Mirror Turn Signal", page 303

# 9 - Insulation

# 10 - Bolt

☐ 12 Nm

### 11 - Connector

#### Mirror Glass, Removing and Installing 2.5

⇒ 2.5.1 , page 297

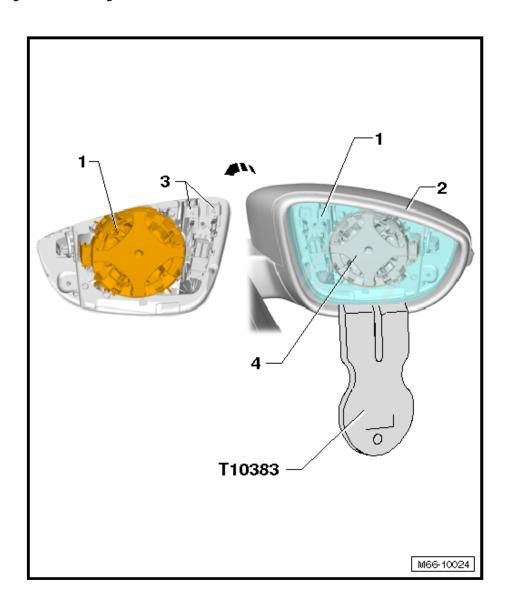
⇒ 2.5.2 , page 298

#### Removing 2.5.1



Note

The following describes removing and installing the right mirror glass. Removing and installing the left mirror glass is identical.



# Perform the Following:



**WARNING** 

Wear protective eyewear and safety gloves when working.

Protect housing edge -2- from damage to paintwork, for example with fabric-reinforced adhesive tape.

- Press the mirror glass -1- into the mirror housing at top -2-.
- Press the mirror glass -1- from the mirror adjusting unit using the Wedge Set -T10383- -4-.
- Move the mirror glass -1- to the side -arrow- and disconnect the connector -3- for the mirror heating from the back of the mirror -1-.

#### 2.5.2 Installing

# Perform the following:

- Connect the connectors to the mirror glass.
- Press the center of the mirror glass onto the adjusting unit in the housing.

The mirror glass will engage with a click.

Perform a function test.

#### Trim, Removing and Installing, without 2.6 **Exterior Rearview Mirror Turn Signal**

⇒ 2.6.1 , page 298

⇒ 2.6.2 , page 299

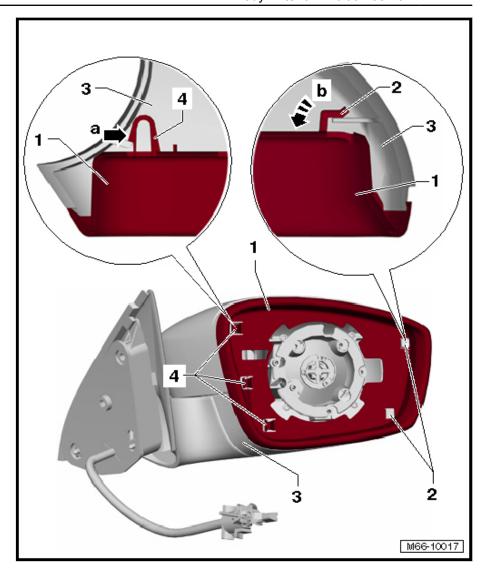
#### 2.6.1 Removing



Note

The following describes removing and installing the right trim. Removing and installing the left trim is identical.

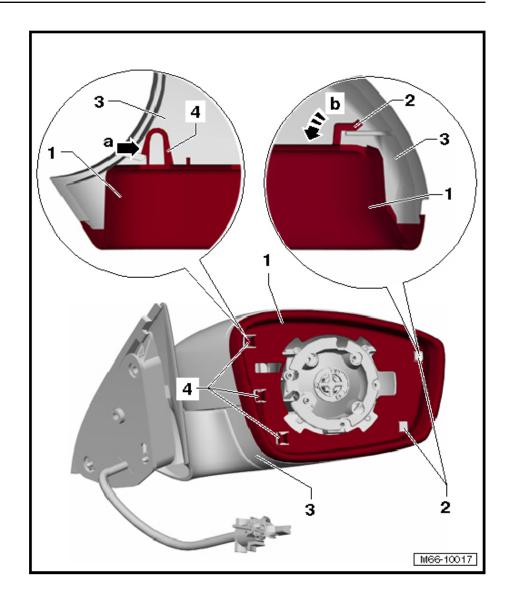




# Perform the following:

- Remove the mirror glass. Refer to ⇒ G2.5 lass, Removing and Installing", page 297.
- Release the hook -4- on the trim -1- -arrow a-.
- Remove the trim -1- by the tabs -2- in direction of -arrow b-.
- Remove the trim -1- from the mirror base -3-.

#### 2.6.2 Installing



### Perform the following:

- Install the trim -1- behind the tabs -2- on the mirror base -3-.
- Press the trim -1- onto the mirror base -3- until the hooks -4click into place.
- Install the mirror glass. Refer to ⇒ G2.5 lass, Removing and

#### Trim with Exterior Rearview Mirror Turn Signal, Removing and Installing 2.7



Note

Removing and installing is described only for the left trim. Removing and installing right trim is derived accordingly from this.

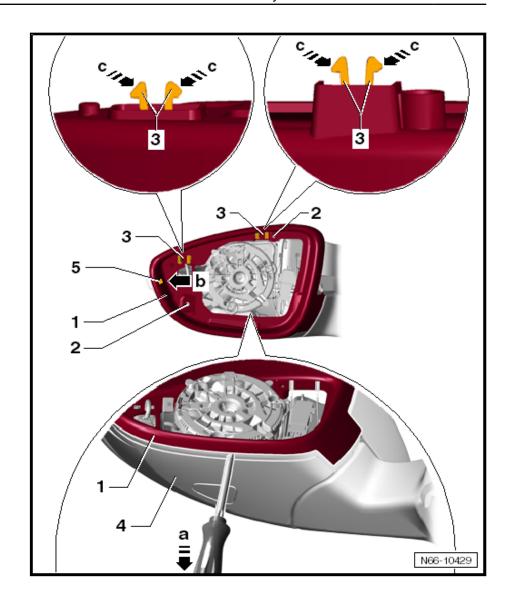
# Removing



Note

If retaining hook -5- breaks at the turn signal, a new turn signal with housing part must be installed.





- Remove the mirror glass. Refer to  $\Rightarrow$  G2.5 lass, Removing and Installing", page 297 .
- Remove the bolts -2-.
- Carefully separate the trim -1- and the mirror base plate -4on the underside in direction of -arrow a-.
- Carefully remove the trim above the turn signal hooks -5--arrow b-.
- Loosen the hooks -3- from the mirror base with a screwdriver in direction of -arrows c-.
- Remove the trim -1-.

# Installing

Install in reverse order of removal.

· Then perform a function test.

### Mirror Housing without Exterior Rear-2.8 view Mirror Turn Signal, Removing and Installing

⇒ 2.8.1 , page 302

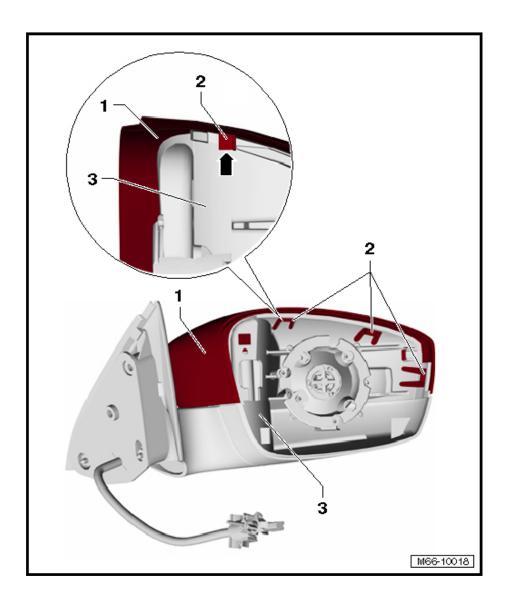
⇒ 2.8.2 , page 303

#### Removing 2.8.1



Note

The following describes removing and installing the right mirror housing. Removing and installing left mirror housing is identical.

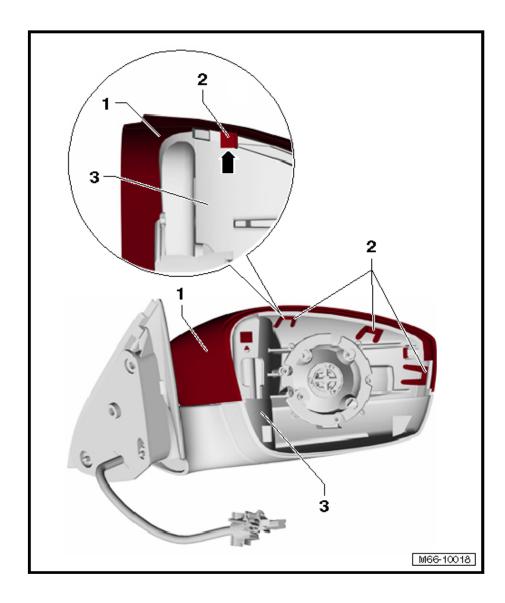


# Perform the Following:

- Remove the mirror glass. Refer to ⇒ G2.5 lass, Removing and Installing", page 297
- Remove the trim. Refer to  $\Rightarrow$  R2.6 emoving and Installing, without Exterior Rearview Mirror Turn Signal", page 298 .

- Unhook the hooks -2- on the mirror housing -1- -arrow-.
- Remove the mirror housing -1- from the mirror base -3-.

#### 2.8.2 Installing



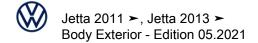
### Perform the Following:

- Press the mirror housing -1- onto the mirror base -3- until the hooks -2- click into place.
- Install the trim. Refer to <u>⇒ R2.6 emoving and Installing, with-</u> out Exterior Rearview Mirror Turn Signal", page 298.
- Install the mirror glass. Refer to ⇒ G2.5 lass, Removing and

### 2.9 Mirror Housing, Removing and Installing, with Exterior Rearview Mirror Turn Signal

# Special tools and workshop equipment required

♦ Wedge Set -T10383-

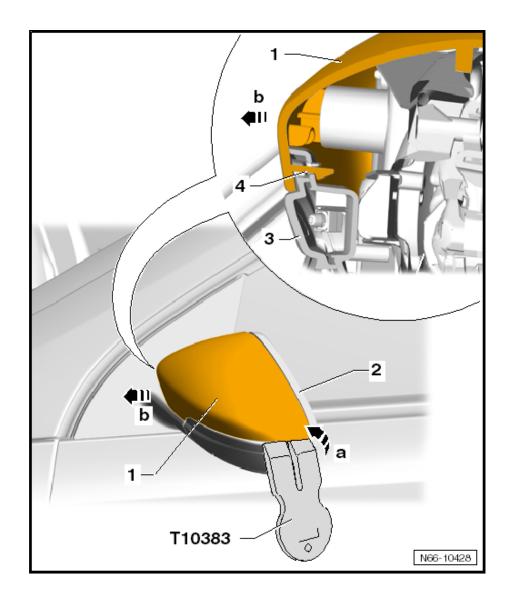




# Note

The following describes removing and installing the left mirror housing. Removing and installing right mirror housing is derived accordingly from this.

### Removing



- Insert the -T10383- between the mirror housing -1- and turn signal -3-.
- Turn the wedge in the direction of the -arrow a- so that the mirror housing -1- is pulled out from under the trim -2- and the hooks -4- are disengaged.
- Then remove the mirror housing -1- toward the front from the mirror base -arrow b-.

# Installing

- Position the mirror housing -1- and push the mirror housing down into the hooks -4-. The catches audibly latch.
- Then perform a function test.

#### 2.10 Adjusting Unit with Exterior Rearview Mirror Motor, Removing and Installing

⇒ 2.10.1 , page 305

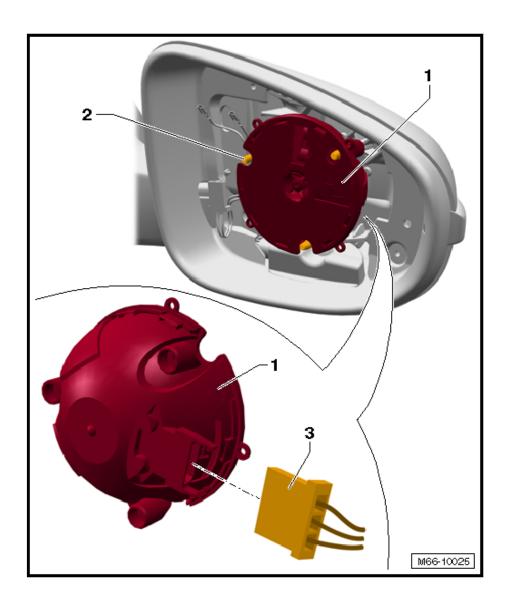
⇒ 2.10.2 , page 306

#### 2.10.1 Removing



Note

The following describes removing and installing the right adjusting unit and motor. Removing and installing left adjusting unit and motor is identical.

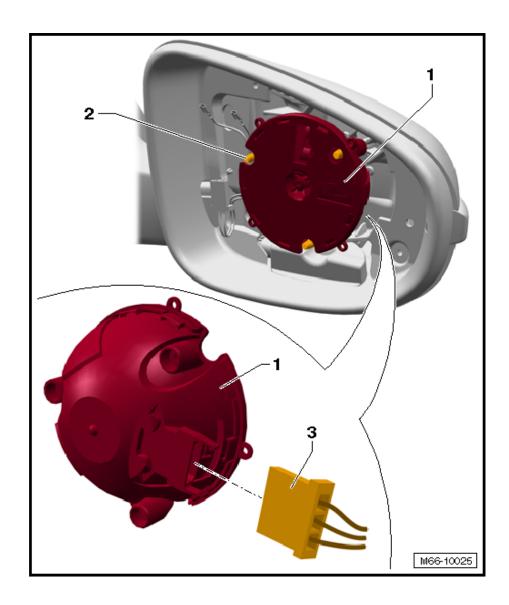


# Perform the following:

- Remove the mirror glass. Refer to ⇒ G2.5 lass, Removing and Installing", page 297.
- Remove the bolts -2- (quantity: 3) and remove the adjuster unit and motor -1- from the mirror base.

Move the adjuster unit -1- to the side and disconnect the connector -3-.

#### Installing 2.10.2



# Perform the following:

- Connect the connector -3- to the adjuster unit -1-.
- Mount the adjuster unit with the motor -1- on the mirror base and tighten the screws -2- (quantity: 3).

Bolt tightening specification -2-: 2 Nm

- Install the mirror glass. Refer to  $\Rightarrow$  G2.5 lass, Removing and Installing", page 297 .
- Perform a function test.

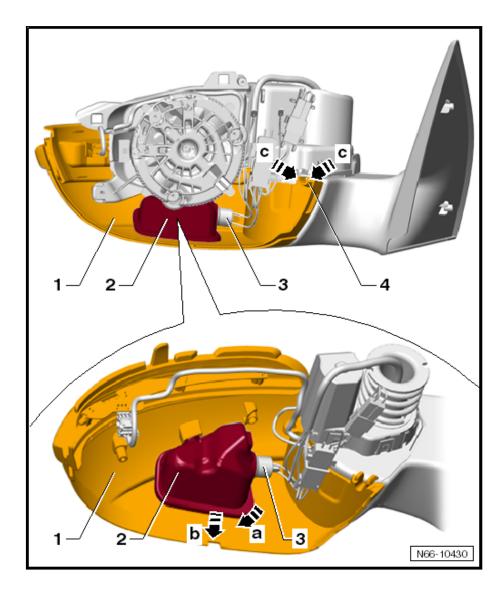
# 2.11 Assembly Part, Removing and Installing



# Note

- ♦ The following describes removing and installing the left assembly part. Removing and installing the right assembly part is identical.
- ♦ The assembly part and exterior mirror turn signals are one component.
- LEDs with a long service life are installed in the exterior rearview mirror turn signals instead of standard hulbs
- ♦ Because of that, it is not necessary to replace bulbs. If damaged, the entire exterior rearview mirror turn signal must be replaced.

### Removing



# Remove the Assembly Part with the Exterior Rearview Mirror Turn Signal.

- Remove the mirror glass. Refer to ⇒ G2.5 lass, Removing and Installing", page 297
- Remove the trim. Refer to <u>⇒ w2.7 ith Exterior Rearview Mirror Turn Signal, Removing and Installing", page 300</u>.

- Remove mirror housing ⇒ H2.9 ousing, Removing and Installing, with Exterior Rearview Mirror Turn Signal", page
- Disconnect the connector on the turn signal in the exterior rearview mirror.
- Release the hooks -4- in direction of -arrows c-.
- Remove the assembly part -1- from the mirror base plate.

#### Remove the Entry Lamp

The entry lamps can only be removed after the assembly part is removed.

Slightly raise the entry lamp -2- in direction of -arrow a- and then remove it from the assembly part -1- in direction of -arrow b-.

### Installing

Install in reverse order of removal.

Then perform a function test.

#### 2.12 Manual Exterior Rearview Mirror, Removing and Installing

⇒ 2.12.1 , page 308

⇒ 2.12.2 , page 310

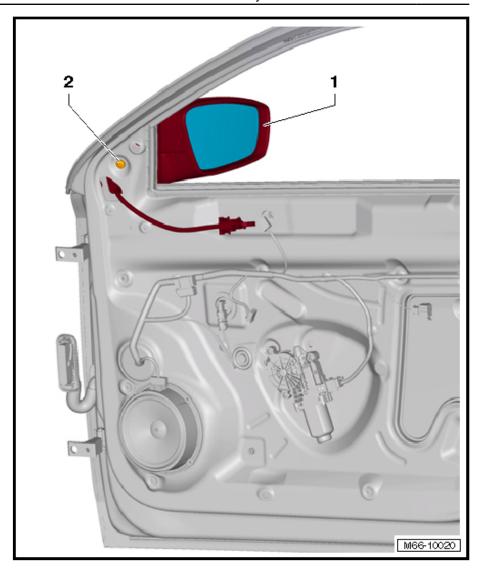
#### 2.12.1 Removing



Note

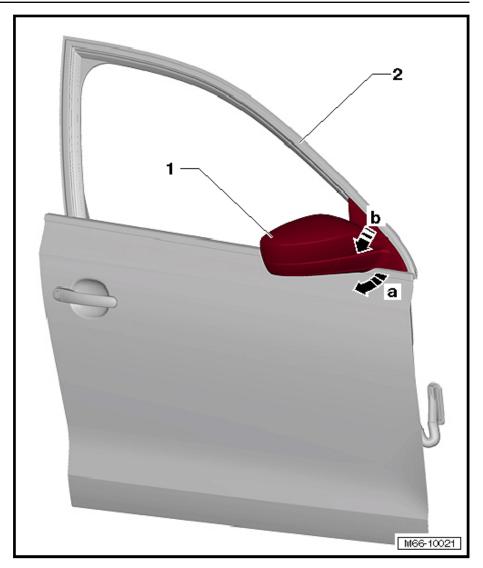
The following describes removing and installing the right exterior rearview mirror. Removing and installing the left exterior rearview mirror is identical.





# Perform the following:

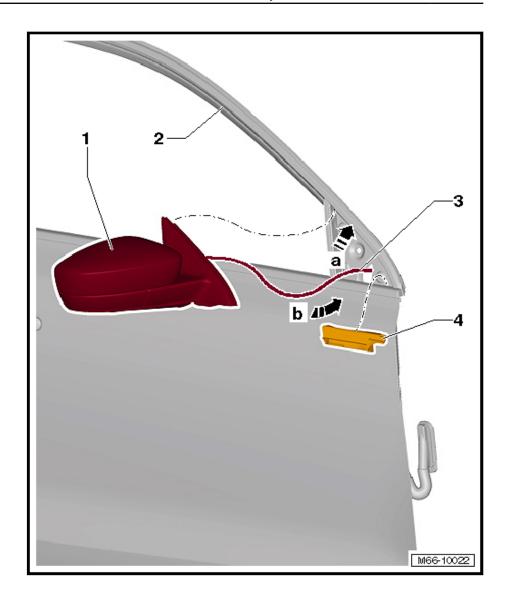
- Remove the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Disconnect the connector from the mirror heating (if equip-
- Remove the screw -2- from the exterior mirror -1-.



- Move the exterior mirror -1- at the bottom slightly from the door in direction of -arrow a- and remove it from the window guide -2- in direction of -arrow b-.
- Guide the cables for the exterior mirror through the opening in the door and remove the exterior mirror -1-.

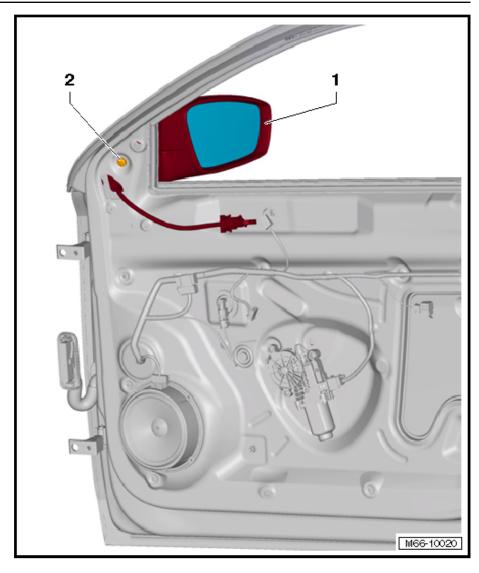
#### Installing 2.12.2





# Perform the following:

- Make sure the foam piece -4- fits correctly inside the door.
- Guide the cables -3- through the opening in the door.
- Push the exterior rearview mirror -1- into the window guide -2- from underneath in direction of -arrow a- and attach it at the bottom of the door in direction of -arrow b-.



Install the bolt -2- for the exterior rearview mirror -1- and tighten it.

Tightening specification for the bolts -2-: 8 Nm

- Connect the connector for the mirror heating (if equipped).
- Install the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.

#### Power Exterior Rearview Mirror, Re-2.13 moving and Installing

⇒ 2.13.1 , page 312

⇒ 2.13.2 , page 314

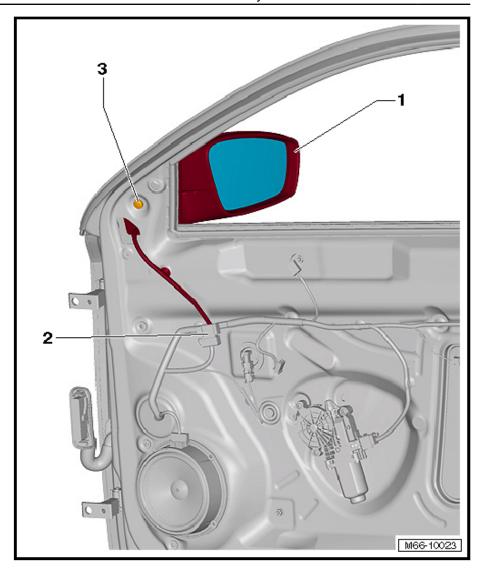
#### 2.13.1 Removing



Note

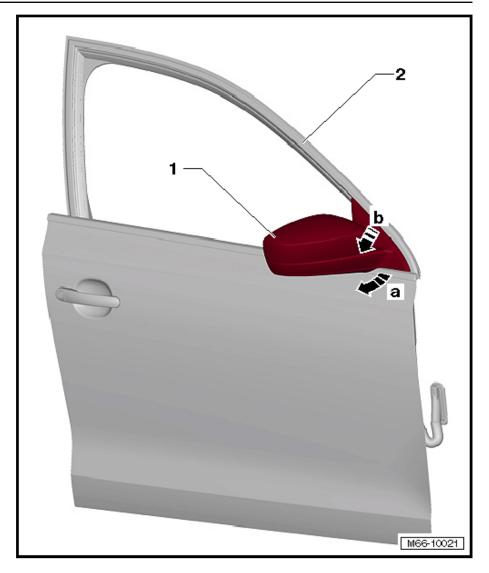
The following describes removing and installing the right exterior rearview mirror. Removing and installing the left exterior rearview mirror is identical.





# Perform the following:

- Remove the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.
- Disconnect the connector -2- from the exterior mirror -1-.
- Remove the screw -3- for the exterior rearview mirror -1-.



- Move the exterior mirror -1- at the bottom slightly from the door -arrow a- and remove it from the window guide -2-
- Guide the wire through the opening in the door and remove the exterior rearview mirror -1-.

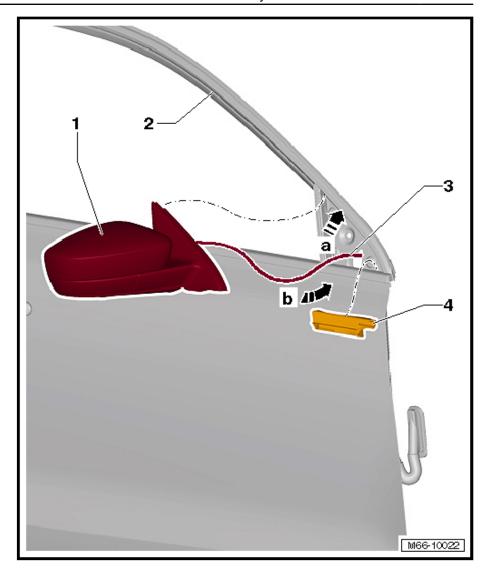
#### 2.13.2 Installing



Note

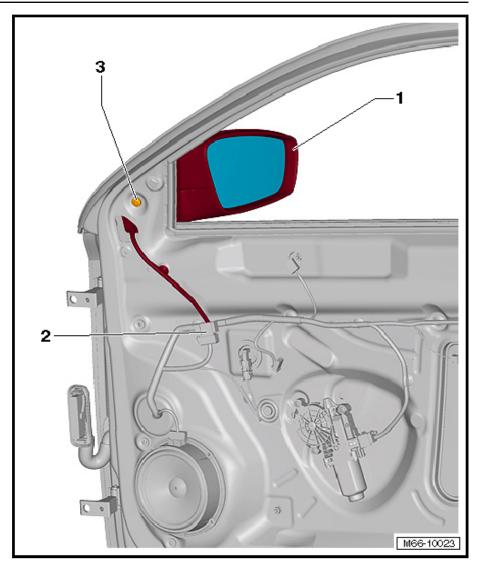
The following describes removing and installing the right exterior rearview mirror. Removing and installing the left exterior rearview mirror is identical.





# Perform the Following:

- Make sure the foam piece -4- fits correctly inside the door.
- Guide the exterior rearview mirror wire -3- through the opening in the door.
- Push the exterior rearview mirror -1- into the window guide -2- from underneath in direction of -arrow a- and attach it at the bottom of the door in direction of -arrow b-.



Install the screw -3- into the exterior rearview mirror -1- and tighten it.

Bolt tightening specification -3-: 8 Nm

- Connect the connector -2- to the exterior rearview mirror -1-.
- Install the front door trim panel. Refer to  $\Rightarrow$  Body Interior; Rep. Gr. 70; Door Trim Panels.

#### 3 **Radiator Grille**

- ⇒ 3.1 , page 317
- ⇒ G3.2 rille, Removing and Installing", page 317
- ⇒ R3.3 emoving and Installing", page 319

#### 3.1 **Tools**

Special tools and workshop equipment required

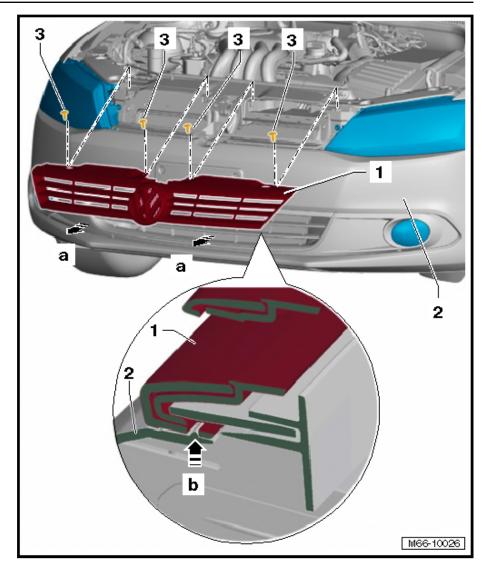
- ♦ Torque Wrench 1783 2-10Nm -VAG1783-
- 3.2 Radiator Grille, Removing and Instal-
- ⇒ 3.2.1 , page 317
- ⇒ 3.2.2 , page 318

#### Removing 3.2.1



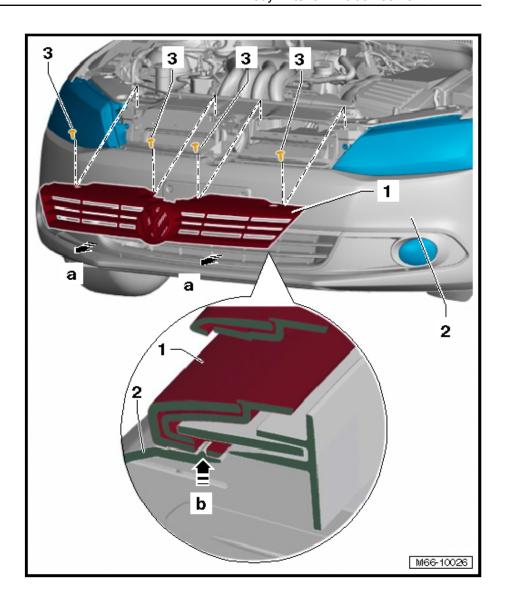
# Note

- ♦ This applies to all models.
- ♦ It may look different on different models.



- Remove the bolts -3-.
- Remove the radiator grille -1- from the front bumper cover -2- in direction of in direction of -arrow a-

### 3.2.2 Installing



- Install the radiator grille -1- into the front bumper cover -2-.
- Push the radiator grille -1- into the front bumper cover -2- in direction of -arrow b- using light pressure.



# Note

Align the radiator grille -1- if necessary.

- Tighten the bolts -3-.

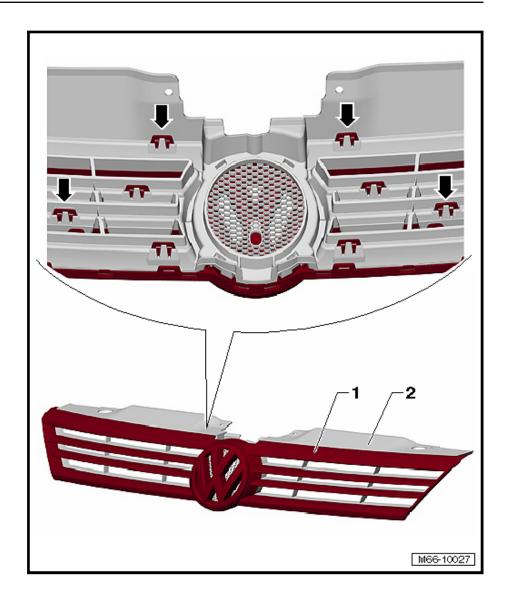
Tightening specification for the bolts -3-: 2 Nm

#### Emblem, Removing and Installing 3.3

⇒ 3.3.1 , page 319

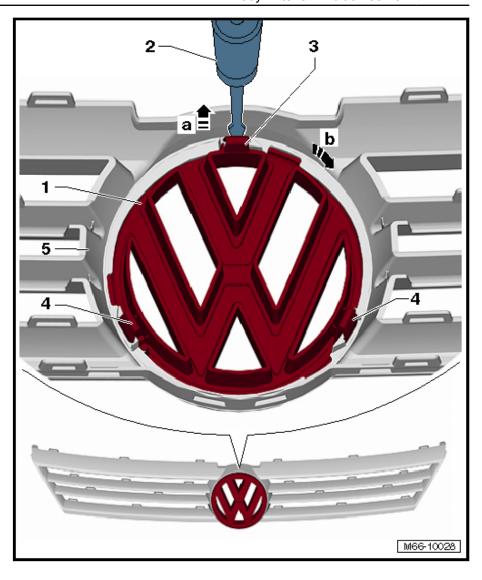
⇒ 3.3.2 , page 321

#### 3.3.1 Removing



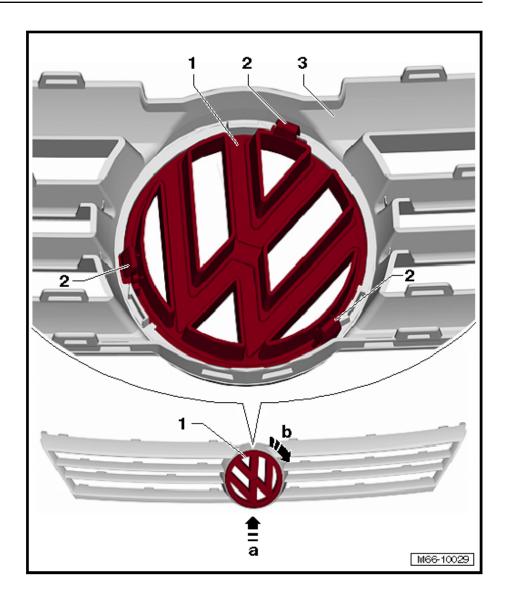
- Remove the radiator grille. Refer to  $\Rightarrow$  G3.2 rille, Removing and Installing", page 317 .
- Unhook all the hooks -arrows- on the emblem -1-.
- Remove the emblem -1- from its holder -2-.





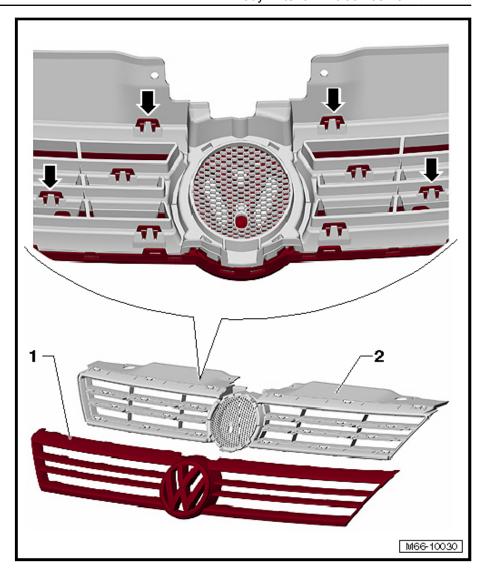
- Unhook the top hook -3- with a screwdriver -2- in direction of -arrow a-.
- Unhook the hook -4- in the same manner and turn the emblem -1- in direction of -arrow b-.
- Remove the emblem and hooks -3- and -4- through the openings in the trim -5-.

#### 3.3.2 Installing



- Push the emblem -1- with the hooks -2- into the trim -3- in direction of -arrow a-.
- Turn the emblem -1- in direction of -arrow b- until the hooks -2- lock into the trim -3-.





- Install the trim and emblem -1- onto the carrier -2-.
- Push the trim and emblem -1- onto the carrier -2- until the hooks -arrows- engage.
- Install the radiator grille. Refer to  $\Rightarrow$  G3.2 rille, Removing and Installing", page 317 .

# Rear Spoiler

## ⇒ S4.1 poiler, Removing and Installing", page 324

#### 4.1 Rear Spoiler, Removing and Installing

## Special tools and workshop equipment required

- ♦ Bonded Window Tool Kit Pull Handle -VAG1351/1-
- Cartridge Gun -VAG1628-
- Hot Air Blower -VAG1416-
- Adhesive Strip Remover -VAS6349-

### **Materials**



### Note

Refer to the Parts Catalog for the material part numbers.

- One-part window adhesive 1) 2) 3)
- Activator 1)
- Glass/paint primer 1)
- Cleaning solution 1)
- Primer applicator 1)
- Adhesive remover 1)
- **Cutting Wire**
- 1) Follow the manufacturer processing guidelines supplied in the packaging.
- 2) Note the minimum curing time. Refer to <u>⇒ page 328</u>.
- 3) Heat according to manufacturer's instructions using the -VAG1939A-.

### Removing



#### Caution

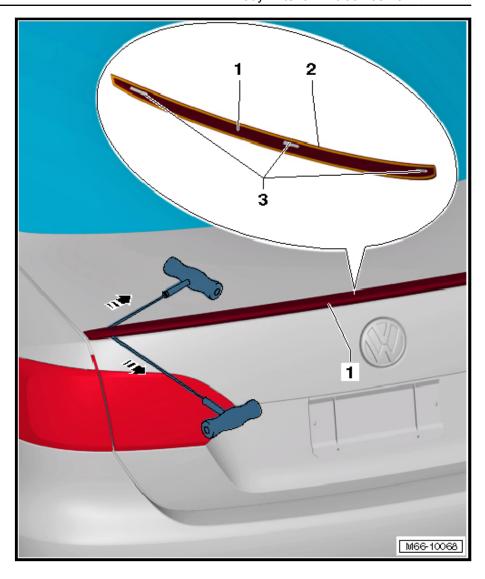
When cutting through the adhesive bead of the rear spoiler, do not use a cutting wire because of the risk of damaging the painted surfaces.



### Note

- Remove dirt from all joints, so that no paint damage can occur during removal of the rear spoiler.
- Cover the bordering painted surfaces with tape to prevent causing damage.





# Perform the Following Procedures:

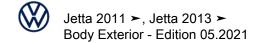
- Warm up the adhesive tape -2- on the rear spoiler -1- using the -VAS1978/14A-.
- Carefully remove the adhesive tape between the rear lid and the rear spoiler (for example with a plastic wedge).
- Pull the cutting wire sideways under the rear spoiler -1-.
- Secure a -VAG1351/1- on both ends of the cutting wire.
- Remove the adhesive sealing material -3- on the rear spoiler -1- with a "sawing" motion.
- Remove the rear spoiler from the rear lid.

### Installing

## Rear Spoiler and Rear Lid, Preparing for Bonding

### When reusing the undamaged rear lid and/or the undamaged rear spoiler

- Replace the old double-sided adhesive tape on the rear spoiler with new double-sided adhesive tape. Refer to the Parts Catalog.
- Remove any adhesive still on the two-sided adhesive tape with -VAS6349-.



Shortly before installing the section cut back the remaining adhesive sealant approximately 2 mm, without damaging the

It is not necessary to clean the cutting surfaces.



### Note

The remaining material acts as a base for the new adhesive sealant to be applied.

### When using a New Rear Lid

- Place the rear spoiler on the rear lid and mark the installation position, then remove the rear spoiler again.
- Clean the marked adhesive surfaces with cleaning solution. Refer to the Parts Catalog.



### Caution

Never apply glass/paint primer beyond the markings. If the glass/paint primer is applied beyond the markings, it can be removed within one minute using a lint free cloth and mineral spirits. It cannot be removed any later than that because of the bonding properties of the glass/paint primer.

- Prime the marked adhesive surfaces for the one-part window adhesive with the glass/paint primer. Refer to the Parts Catalog.
- Drying time 10 minutes

### When using a New Rear Spoiler

Clean the marked adhesive surfaces with cleaning solution. Refer to the Parts Catalog.



### Caution

Never apply glass/paint primer beyond the marking. If the glass/paint primer is applied in excess on the adhesive surfaces, it can be removed with a lint free cloth and mineral spirits within the first minute. It cannot be removed any later than that because of the bonding properties of the glass/paint primer.

- Prime the adhesive surfaces for the one-part window adhesive with the glass/paint primer. Refer to Parts Catalog.
- Drying time 10 minutes

#### Two Sided Tape, Installation Instructions

- If installing the rear spoiler for the first time on newly painted surfaces, follow the procedure described in Paint Repair Manual.
- If removing or installing the rear spoiler, only use the adhesive remover to separate the remaining adhesive from the adhesive tape. Refer to the Parts Catalog.
- If necessary, remove any adhesive residue left by the adhesive tape using the -VAS6349-.

- Make sure there is no dust or grease on the adhesive surfaces.
- ♦ Apply the rear spoiler immediately after cleaning.
- ♦ Peel off the backing just before installing the rear spoiler.
- ◆ The temperature must be approximately 21 °C (70 °F).

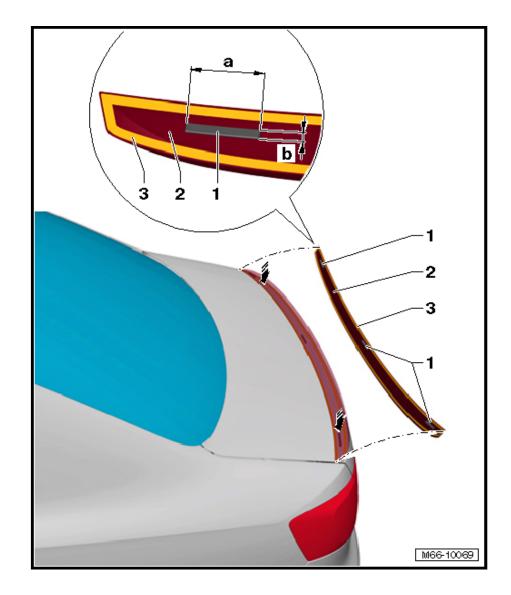
## Perform the following procedures:



## **WARNING**

Make sure that the correct materials are being used during the corresponding steps.

- Prepare the rear spoiler and rear lid for bonding. Refer to ≥ page 325.
- Observe the installation instructions for two-sided adhesive tape. Refer to <u>⇒ page 326</u>.



Apply the one-part window adhesive -1- with the - VAG1628to the rear spoiler -2-.

- Length of adhesive sealing material -1-: 50 mm (dimension
- Width of adhesive sealing material -1-: 6.5 mm (dimension
- Height of adhesive sealing material -1-: 7 mm
- Remove the protective foil of the double-sided adhesive tape -3- on the left and right outer edges of the rear spoiler -2-.
- Attach the rear spoiler -2- to the rear lid with the help of a second technician and align it.
- Press the right and left edges of the rear spoiler down onto the rear lid -arrows- while at the same time remove the remaining protective foil from the double-sided adhesive tape -3- on the rear spoiler -2-.
- Press the rear spoiler -2- down evenly over the entire length.
- Observe the minimum curing time. Refer to <u>⇒ page 328</u>.

### Minimum Curing Time



### **WARNING**

The vehicle can only be used after the minimum curing time has elapsed.

	Adhesive Sealant	Minimum Cur- ing Time in Hours
Rear spoiler on the rear lid	One-part window adhesive. Refer to the Parts Catalog.	3

#### **Trim Moldings and Trim** 5

- ⇒ R5.1 ail", page 329
- ⇒ -5.2 Sill Panel Cover", page 333
- ⇒ -5.3 B-Pillar Trim", page 334
- ⇒ T5.4 rim, Removing and Installing", page 335
- ⇒ P5.5 anel Extension", page 337

#### 5.1 **Drip Rail**

- ⇒ 5.1.1 , page 329
- ⇒ 5.1.2 , page 329
- ⇒ 5.1.3 , page 330
- ⇒ 5.1.4 , page 331

#### 5.1.1 **Tools**

# Special tools and workshop equipment required

- ♦ Gauge Gap Adjustment -3371-
- ♦ Hot Air Blower -VAG1416-
- ♦ Adhesive Strip Remover -VAS6349-

#### 5.1.2 Overview



Note

The illustration shows the right side. The left side is identical.

# 1 - Drip Rail

### 2 - Retaining Strip

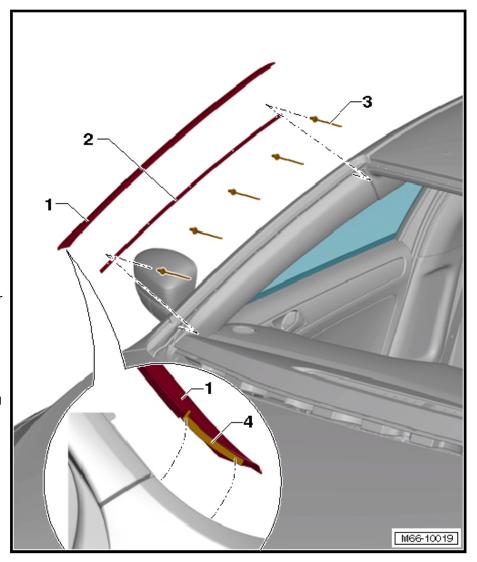


# 3 - Pop Rivet

- Quantity: 5
- ☐ Drill out the pop rivets in order to remove the retaining strip
- ☐ Install the pop rivets with pop rivet pliers (for example Pop Rivet Pliers -VAS5072-) in order to install the retaining strip

### 4 - Adhesive Tape

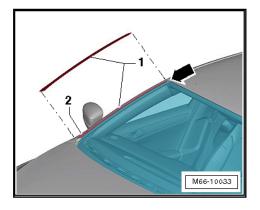
- ☐ Is a part of the drip rail
- ☐ Remove the protective film just before applying the glue.



#### 5.1.3 Removing

### Perform the Following Procedures:

Pry the drip rail -1- out of the retaining strip starting at the top -arrow-.



Warm the adhesive tape on the retaining strip for the front fender -2- using a -VAS1978/14A- and carefully peel it off.

#### 5.1.4 Installing

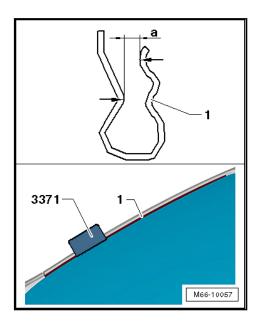
# **Assembly Instructions**

- ◆ If removing the drip rail, only use the Adhesive Remover -D 002 000 10- to remove the adhesive residue.
- ♦ If necessary, remove any adhesive residue left by the adhesive tape using the Adhesive Remover -VAS6349-.
- Make sure there is no dust or grease on the adhesive surfa-
- ◆ Apply the drip rail immediately after cleaning.
- ♦ Only remove the protective film right before assembly.
- ◆ The temperature must be approximately 21 °C (70 °F).

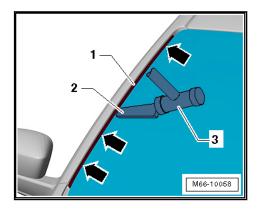
## Perform the Following Procedures:

Follow the assembly instructions. Refer to ⇒ page 331.

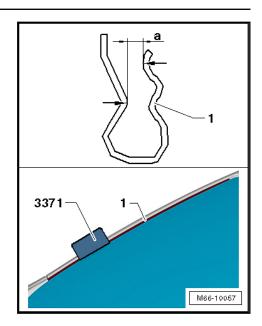
Check the distance -a- over the entire length of the retaining strip -1- using -3371-.



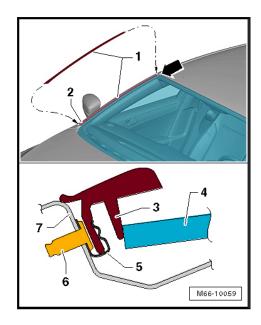
- Distance -a- between the -arrows-: 0.9 to 1.1 mm
- If the measured distance on the retaining strip -1- is different than the specified value, then it is necessary to adapt the distance -arrows-, for example, with a plastic wedge -2- and hammer -3-.



Check the distance -a- over the entire length of the retaining strip -1- after the adapting using -3371-.



- Distance -a- between the -arrows-: 0.9 to 1.1 mm
- Press the drip rail -1- onto the retaining strip -5- starting at the top -arrow-.



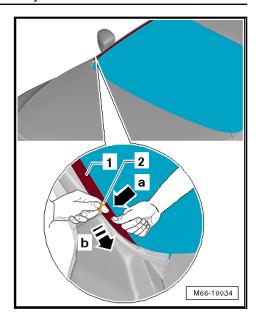


# Note

The drip rail -1- must not protrude above the edge of the roof. This will create wind noise.

- Fold the lip on the drip rail -3- behind the edge of the windshield -4-.
- 6 Pop Rivet
- 7 Body Flange
- Attach the tape on the retaining strip to the front fender -2as follows.
- Press the drip rail -1- on the inside -arrow a- to make it easier to remove the protective film from the front fender.





Peel off the protective film -2- in direction of -arrow b- and press the drip rail onto the front fender.

#### 5.2 Overview - Sill Panel Cover



Note

The illustration shows the left side. The right side is identical.

### 1 - Sill Panel Cover

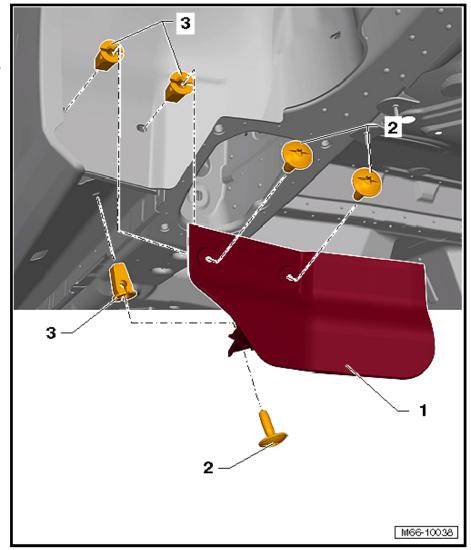
- □ Removing:
- Remove the bolts -2- and the sill panel cover.
- ☐ Installing:
- Check the expanding nut -3- for damage and replace if necessary.
  - Mount the sill panel cover and tighten the bolts -2-.

### 2 - Screw

- ☐ Tightening specification: 2 Nm
- □ Quantity: 3

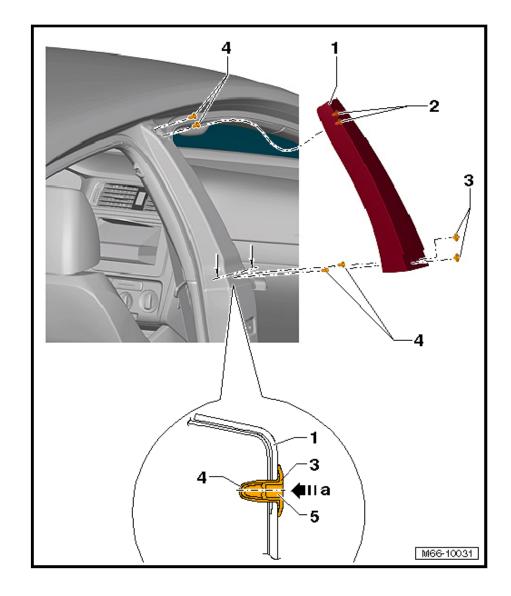
# 3 - Expanding Nut

- Quantity: 3
- □ Replace if damaged



#### 5.3 Overview - B-Pillar Trim

- 1 B-Pillar Trim
- 2 Fasteners
  - Part of the trim
- 3 Clip
- 4 Grommet
  - ☐ Quantity: 4
- 5 Expanding Rivet



#### B-Pillar Trim, Removing and Installing 5.4

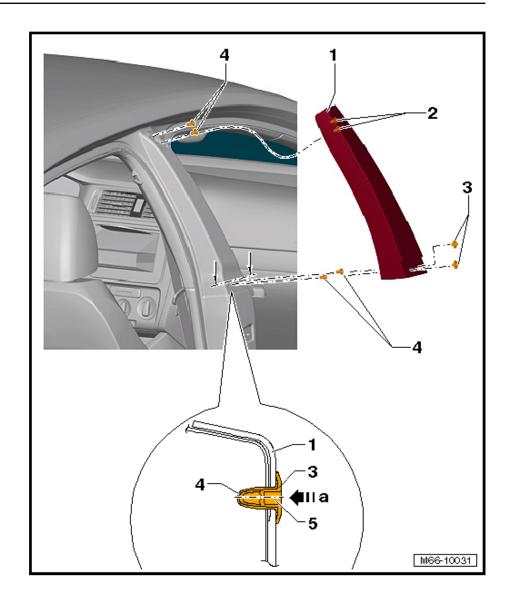
- ⇒ 5.4.1 , page 335
- ⇒ 5.4.2 , page 336

#### 5.4.1 Removing



Note

It is not possible to remove the trim without destroying it.



Install the expanding pins -5- slightly into the clips -3- in direction of -arrow a-.

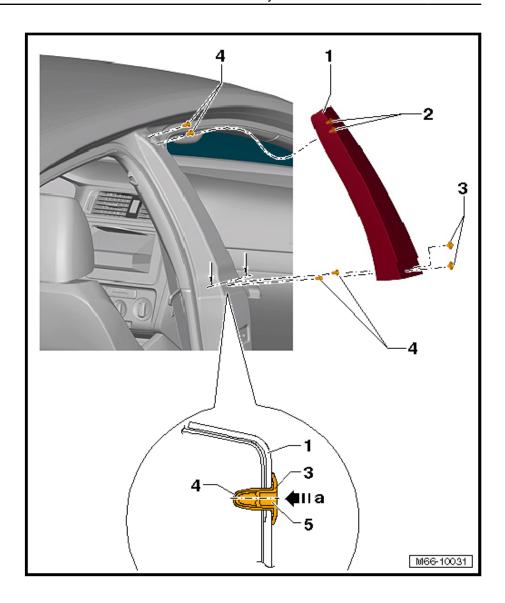


# Note

The expanding pins -5- remain in the grommets -4-.

- Remove the clips -3-.
- Remove the trim -1- and the fasteners -2- from the grom-
- Remove the expanding pins -5- from the grommets -4-.

#### 5.4.2 Installing





# Note

Check the grommets -4- for damage and replace if necessary.

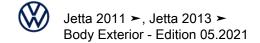
- Mount the trim -1- on the B-pillar.
- Press the fasteners -2- on the trim into the grommets -4-.
- Install the clips -3- and press the expanding pins -5- into the clips in direction of -arrow a-.

#### 5.5 Rocker Panel Extension

- ⇒ 5.5.1 , page 337
- ⇒ D5.5.2 imensions", page 339
- ⇒ 5.5.3 , page 340

#### 5.5.1 Removing

Special tools and workshop equipment required

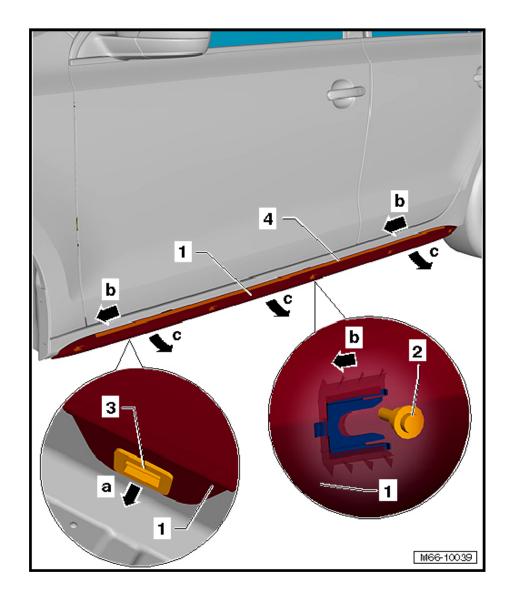


Wiring Harness Repair Set - Hot Air Blower -VAS1978/14A-



## Note

The following described removing and installing the left rocker panel extension. Removing and installing the right rocker panel extension is identical.



# Perform the Following:

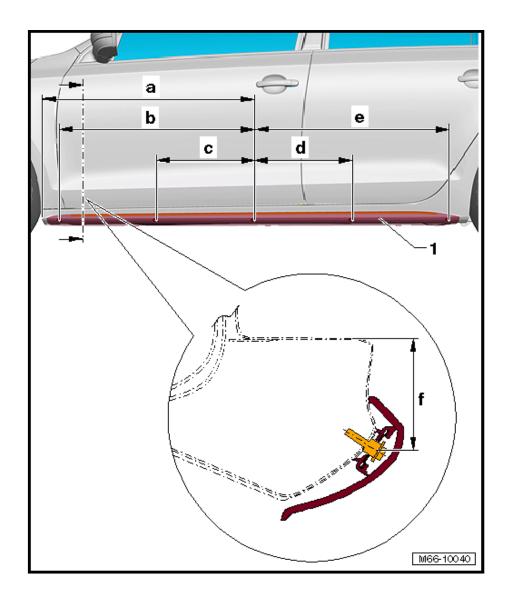
- Open the clips -3- and remove them from the rocker panel extension -1- -arrow a-.
- Warm up the adhesive tape -4- on the top of the rocker panel extension -1- using the -VAS1978/14A-.
- Carefully loosen the tape -4- between the side sill and the rocker panel extension -1- using a plastic wedge.
- Push the rocker panel extension -1- forward -arrows b- until it can be removed from the five bolts -2- -arrows c-.

#### **Screw Dimensions** 5.5.2



# Note

- The screws for the rocker panel extension are corrosion-resistant. They do not need to be treated.
- ♦ A screw must be replaced with a "black" oversized screw if it was over-torqued.



# Perform the Following:

- There are no holes for the screws.
- Measure out the required holes for the screws using the table below. Refer to  $\Rightarrow$  page 340
- Punch the locations for the holes and then use a 1.5 mm drill bit to drill the holes.





### Note

- Dimension -a- is measured including the front wheel housing liner. Dimensions -b through e- are always measured from the center hole.
- Dimension -f- is measured on the center hole.

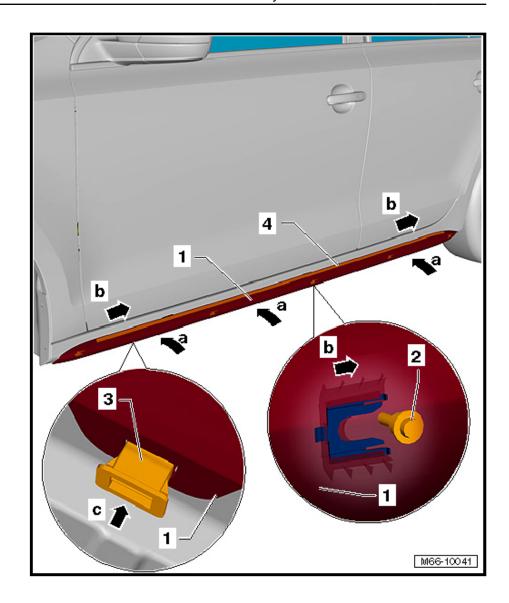
Screw Dimensions					
Dimension -a-	= 950 mm				
Dimension -b-	= 869 mm				
Dimension -c-	= 435 mm				
Dimension -d-	= 435 mm				
Dimension -e-	= 869 mm				
Dimension -f-	= 60 mm				

#### 5.5.3 Installing

### **Assembly Instructions**

- ♦ If installing the rocker panel extension for the first time on a commercial vehicle or a newly painted surface. Refer to ⇒ Paint; Rep. Gr. 00.
- If removing the rocker panel extension, only use the Adhesive Remover -D 002 000 10- to remove the adhesive resi-
- Make sure there is no dust or grease on the adhesive surfaces.
- Install the rocker panel extension immediately after cleaning.
- Remove off the peel-off backing just before installing the rocker panel extension.
- The temperature must be approximately 21 °C (69.8 °F).





- There are 5 holes for the screws -2-.
- Follow the assembly instructions. Refer to ⇒ page 340.
- Install the self-tapping screws -2- into the holes.

Screw tightening specification -2-: 1.2 Nm

- Mount the rocker panel extension -1- so that the openings on the back are lined up over the bolts -2- until the rocker panel extension is touching the side sill evenly -arrows a-.
- Push the rocker panel extension -1- all the way toward the back onto the bolts -2- -arrows b-.
- Press the clips -3- into the rocker panel extension -1--arrow c- until the click into place.
- Remove off the peel-off backing on the stop of the rocker panel extension -1- from the adhesive strip -4- and press the it firmly onto the sill panel.

#### 6 Name Badges

- ⇒ 6.1 , page 342
- ⇒ I6.2 nstructions for Name Badges and Emblems", page 342
- ⇒ L6.3 id Name Badge Dimensions", page 343
- ⇒ B6.4 adge on Fender, Dimension", page 345

#### 6.1 **Tools**

Special tools and workshop equipment required

- ♦ Hot Air Blower -VAG1416-
- ♦ Adhesive Strip Remover -VAS6349-

#### 6.2 **Assembly Instructions for Name Badges and Emblems**



# Note

- It is not possible to remove the name badge without break-
- Warm up the name badge before removing using a Wiring Harness Repair Set - Hot Air Blower -VAS 1978/14A-.
- Only use the Adhesive Remover -D 002 000 10-.
- Make sure the adhesive surfaces are free of dust and grease.
- Install the name badges immediately after cleaning them.
- Only remove the protective film right before assembly.
- The temperature must be approximately 21 °C (69.8 °F).

#### 6.3 Rear Lid Name Badge Dimensions

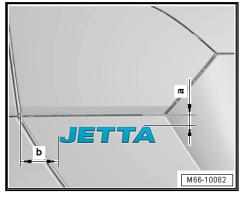
- ⇒ N6.3.1 ame Badge", page 343
- ⇒ N6.3.2 ame Badges", page 343
- ⇒ B6.3.3 adge, Additional Designation", page 344
- ⇒ G6.3.4 LI Name Badge", page 344
- ⇒ H6.3.5 YBRID and SPORT Name Badges", page 345

#### 6.3.1 Model Name Badge



Note

Follow the assembly instructions when installing the name badges. Refer to ⇒ 16.2 nstructions for Name Badges and Emblems", page 342.



Dimension -a-: 14 mm from the left tail lamp lower edge to the top of the name badge

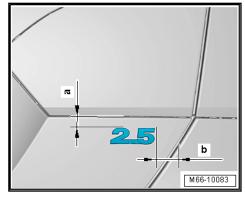
Dimension -b-: 40 mm from the edge of the rear lid to the outer edge of the name badge

#### **Engine Name Badges** 6.3.2



Note

Follow the assembly instructions when installing the name badges. Refer to ⇒ 16.2 nstructions for Name Badges and Emblems", page 342.



Dimension -a-: 14 mm from the right tail lamp lower edge to the top of the name badge



Dimension -b-: from the edge of the rear lid to the outer edge of the name badge

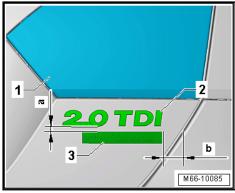
- ◆ "2.0", "2.5" name badge; 43 mm
- ♦ "TDI", "TSI", "2.5 SE", "2.5 SEL" name badge; 40 mm
- ◆ "2.0 TDI", "2.0 TSI" name badge; 37 mm

# 6.3.3 Name Badge, Additional Designation



Note

Follow the assembly instructions when installing the name badges. Refer to <u>⇒ I6.2 nstructions for Name Badges and Emblems", page 342</u>.



- 1 Right Tail Lamp in the Rear Lid
- 2 Engine Designation
- 3 Additional designation

Dimension -a-: 8 mm, from the lower edge of the engine designation up to the upper edge of the additional designation

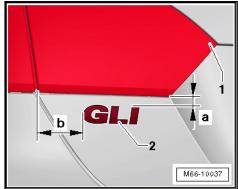
Dimension -b-: 22 mm from the edge of the rear lid to the outer edge of the name badge

# 6.3.4 "GLI" Name Badge



Note

Follow the assembly instructions when installing the name badges. Refer to ⇒ I6.2 nstructions for Name Badges and Emblems", page 342.



1 - Left Tail Lamp in the Rear Lid

### 2 - "GLI" Name Badge

Dimension -a-: 15 mm from the lower edge of the tail lamp assembly to the top of the name badge

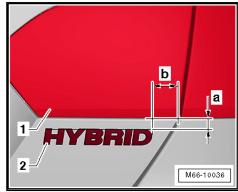
Dimension -b-: 77 mm from the edge of the tail lamp to the outer edge of the name badge

# 6.3.5 "HYBRID" and "SPORT" Name Badges



Note

Follow the assembly instructions when installing the name badges. Refer to ⇒ 16.2 nstructions for Name Badges and Emblems", page 342.



- 1 Right Tail Lamp in the Rear Lid
- 2 Name Badge "HYBRID" or "SPORT"

Dimension -a-: from the lower edge of the right tail lamp assembly to the top of the name badge

- "HYBRID" name badge: 13 mm
- ◆ "SPORT" name badge: 14 mm

Dimension -b-: from the edge of the rear lid to the outer edge of the name badge

- "HYBRID" name badge: 27 mm
- ♦ "SPORT" name badge: 37 mm

# 6.4 Name Badge on Fender, Dimension

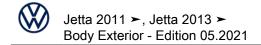
- ⇒ H6.4.1 YBRID Name Badge", page 345
- ⇒ M6.4.2 ATCH, LIFE, sochiEDITION, Name Badge", page 347

# 6.4.1 "HYBRID" Name Badge

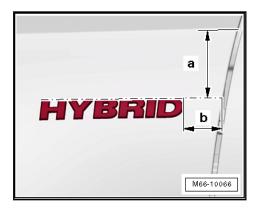


Note

Follow the assembly instructions when installing the name badges. Refer to <u>⇒ 16.2 nstructions for Name Badges and Emblems"</u>, page 342.



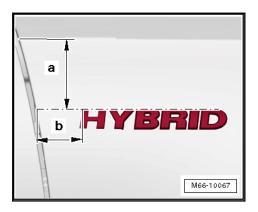
## Left Fender Name Badge



Dimension -a-: 58 mm from the recess in the fender to the upper edge of the name badge

Dimension -b-: 32 mm from the edge of the fender to the rear edge of the name badge

# Right Fender Name Badge



Dimension -a-: 58 mm from the recess in the fender to the upper edge of the name badge

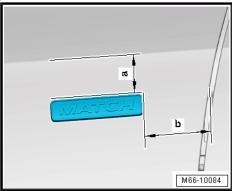
Dimension -b-: 35 mm from the edge of the fender to the rear edge of the name badge

### "MATCH", "LIFE", "sochiEDITION", 6.4.2 Name Badge



# Note

- Follow the assembly instructions when installing the name badges. Refer to ⇒ 16.2 nstructions for Name Badges and Emblems", page 342.
- The dimensions described are only for the left fender. The dimensions for the right fender are identical.



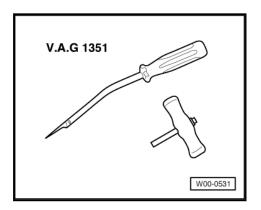
Dimension -a-: 40 mm from the recess in the fender to the upper edge of the name badge.

Dimension -b-: 42 mm from the edge of the fender to the rear edge of the name badge

#### **Special Tools** 7

# Special tools and workshop equipment required

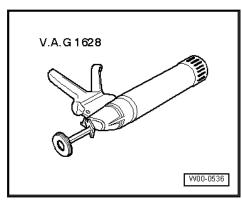
♦ Bonded Window Tool Kit - Pull Handle -VAG1351/1-



Hot Air Blower -VAG1416-



♦ Cartridge Gun -VAG1628-



Adhesive Strip Remover -VAS6349-

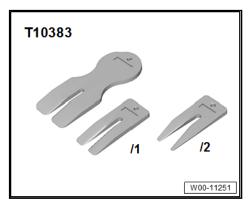




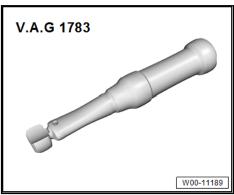
♦ Gauge - Gap Adjustment -3371-



♦ Wedge Set -T10383-



♦ Torque Wrench 1783 - 2-10Nm -VAG1783-



### **Revision History** 8

**DRUCK NUMBER: K0059070921** 

Fac- tory Edi- tion	Edit Edi- tion	Job Type	Fee dba ck	Notes	Quality Checke d By
05.2 021	12/0 2/20 21	Cor- rec- tion	N/A		JY
05.2 021	11/1 2/20 21	Cor- rec- tion	N/A		JY
05.2 021	06/2 2/20 21	Fac- tory Up- date	N/A		JY
03.2 019	06/0 4/20 19	Fac- tory Up- date	N/A		Joe Y
02.2 019	04/0 1/20 19	Fac- tory Up- date	N/A		Eric P.
07.2 017	01/3 1/20 18	Local Fac- tory Feed- back	130 539 5	Hood Cable, Removing and Installing chapter added	Tom Perry
07.2 017	08/0 9/20 17	Fac- tory Up- date	N/A		Joe Y.
06.2 016	08/0 8/20 16	Fac- tory Up- date	N/A		Joe Y.
06.2 014	07/0 8/20 15	Cor- rec- tion	N/A		Joe Y.
06.2 014	07/0 1/20 15	Feed- back	011 6		Joe Y.
06.2 014	06/2 4/20 15	Cor- rec- tion	N/A		Eric P.
06.2 014	06/0 3/20 15	Re- for- mat/ link check /feed- back	110 011 6		Joe Y.
06.2 014	7/23/ 2014	Fac- tory Up- date / FB	100 835 8		Joe Y.

Fac- tory Edi- tion	Edit Edi- tion	Job Type	Fee dba ck	Notes	Quality Checke d By
N/A	3/3/2 014	Fac- tory Up- date	N/A		Joe Y.
N/A	4/10/ 2013	Fac- tory Up- date	N/A		Joe Y.

# **Cautions & Warnings**

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only.
   Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the Volkswagen Factory Approved Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid.
   Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

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# **Cautions & Warnings**

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the
  instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only
  replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good
  repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that
  might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills
  at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that
  automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device.
  Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal
  injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians
  should test, disassemble or service the airbag system.

### Page 2 of 3

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# **Cautions & Warnings**

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the Volkswagen Factory Approved Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.